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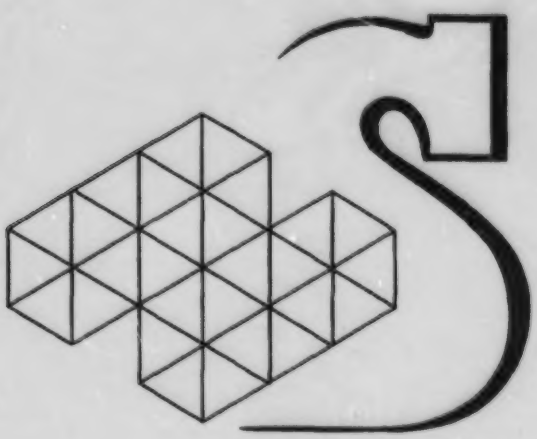

HUMANSYSTEMS
Incorporated

Humansystems

111 Farquhar Street

Guelph, Ontario

N1H 3N4

Tel: (519) 836-5911

Fax: (519) 836-1722

http://www.humansys.com

Army Combat Clothing & Equipment Survey System Part 2:

Investigation of Focus Groups in the Survey System

PWGSC Contract No. W7711-6-7302/001-SRV

Army Combat Clothing & Equipment Survey System
Part 2:
Investigation of Focus Groups in the Survey System

by

David W. Tack and Philip Gaughan

Humansystems Incorporated
111 Farquhar Street, Second Floor
Guelph, Ontario
N1H 3N4

Project Manager:

David W. Tack
(519)-836-5911

PWGSC Contract No. W7711-6-7302/001-SRV

On behalf of
DEPARTMENT OF NATIONAL DEFENCE

As represented by
Defence and Civil Institute of Environmental Medicine
1133 Sheppard Avenue West
North York, Ontario.

DCIEM Project Director:

Major Linda Bossi
(416)-635-2197

DCIEM Scientific Authorities:

Yvonne Shek

Captain Robert Poisson

15 October 1997

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REFERENCES

A SHEK, Y., ANGEL, H.A & DONATI, A.L.M. (1996) Human Factors Support to Op Harmony: A Field Survey of Military Clothing and Equipment. DCIEM Report No. 1996-R-15

B WEBB, R.D.G., TACK, D.W., GAUGHAN, P.M., and STROUD, M. (1995) Combat Soldier 1995 User Trial Final Report. Humansystems Incorporated Contractor Report, *Ministry of Defence, United Kingdom. DRA/CHS/PHYS/CR95/007*

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1.0 INTRODUCTION

In the past, User feedback on the suitability of in-service clothing and equipment has been unsystematic and ad hoc, relying both on informal comments from the soldier community and the Unsatisfactory Condition Report (UCR) process. While NDHQ requirements and engineering directorates have historically relied on UCRs to uncover existing clothing and equipment deficiencies and to help direct procurement activities, most stakeholders recognize that the system is idiosyncratic, slow, and imprecise.

In previous questionnaire surveys by DCIEM (reference A) and DRA (reference B), User feedback data provided invaluable insights into clothing and equipment deficiencies, were representative of the larger population of Users, and provided inestimable guidance for future development and procurement efforts. Based on a clear need to improve on the current UCR process, and to build on the success of these earlier projects, DCIEM has undertaken to develop a standardized, questionnaire survey system for collecting and analyzing User feedback on clothing and equipment issues (i.e. the Army Combat Clothing and Equipment Survey System or ACCESS).

In Part 1 of this project (reference C), the ACCESS survey system questionnaire was designed, piloted, and evaluated for usability and utility with 59 soldiers from CFB Petawawa. The usability and utility of the questionnaire design and the ACCESS approach were found to be

1.1 AIM

The primary aim of this project was to investigate the issues associated with incorporating a focus group methodology into the ACCESS tool.

The secondary aim of this project was to review respondent data on questionnaire usability and utility.

2.0 METHOD

The ACCESS package was piloted with soldiers at CFB Petawawa and the utility and usability of the questionnaire design was assessed using a separate Evaluation Questionnaire. Half of the pilot participants received a detailed briefing on the content of the questionnaires, the format, the rating scale, and the terminology, and these participants were able to ask questions during questionnaire completion. To simulate the typical conditions of a mail-out survey, the remaining participants were provided the ACCESS package without a briefing and were able to ask any questions.

These methodological steps are described in more detail below.

2.1 ACCESS Questionnaire Data

The following eleven items were selected for the ACCESS data collection to provide valuable, timely input to the development of replacement items in the Clothe-the-Soldier program. The ACCESS questionnaire is included in Annex A.

Combat Cap	
IECS Fleece Top	IECS Fleece Pants
IECS Jacket	IECS Windpants
IECS Parka	Socks, MVP
Webbing, Battle Order	Socks, Gray
Load Carriage Vest (Bosnian)	Cold Wet Weather Boot

The ACCESS questionnaire package comprised instructions on how to complete the questionnaires, a glossary of questionnaire terms, a data sheet for personal information, and ten questionnaires which included the following data blocks.

- **Frequency of use:** Respondents were required to indicated how often they had used the item (i.e. never, occasionally, or frequently).
- **Section A - Specific Features:** Using an illustration of the item, specific features are listed and indicated with pointers. Respondents were required to rate the functionality and durability of each feature.
- **Section B - Whole Item:** Respondents were required to rate suitability of each item for physical activities, environmental conditions, stowage (personal load carriage and in vehicles), compatibility with other clothing, equipment and weapons, durability, care, adjustment, use in vehicles, comfort (physical and thermal) and other item specific issues.
- **Section C – Fit:** Respondents were required to rate the suitability of fit for a number of critical sizing and fit dimensions for the item.
- **Section D – Overall Ratings:** Respondents were required to provide an overall rating for appearance, functionality, and durability.
- **Section E - Size Issued:** Respondents were required to indicate the size of the item they were issued.

- **Section F – Replacement Items:** If respondents had purchased a replacement item for their in-service kit, they were required to indicate the names or model numbers of each item.
- **Section G – Comments:** Respondents were required to provide comments to explain their reasoning behind high and low ratings, and to recommend any improvements to the in-service item.

The primary rating scale used in the questionnaire comprised a five-point interval scale for acceptability. An example scale is provided below in Figure 1.

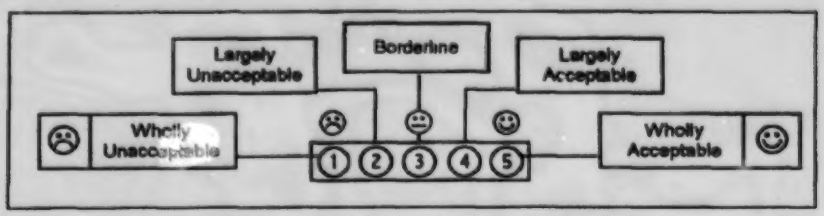


Figure 1: Five-point Acceptability Scale

2.2 ACCESS Focus Groups

Focus groups (60 minutes per item) were held with 40 participants, in two separate groups of twenty, drawn from a wide range of trades within Combat, Combat Support and Combat Service Support Units at CFB Calgary. A breakdown of the number of participants from each unit is provided in the Section 3 - Results.

Combat Cap
Load Carriage
Underwear
Cold Wet Weather Glove
Cold Wet Weather Boot

To assess the utility of adding focus groups to the ACCESS methodology, participants were required to discuss the deficiencies with each kit item and their current usage patterns. To support future development and procurement efforts in CTS, participants were also required to discuss the performance requirements and design characteristics they desired in any new kit items.

2.3. ACCESS Evaluation Questionnaire

Following the completion of the ACCESS questionnaires, all participants were required to complete a further questionnaire designed to assess the format, content and style of the ACCESS questionnaire, and to evaluate the contribution of a briefing to ACCESS comprehension. A copy of the evaluation questionnaire is included in Annex B.

The ACCESS evaluation questionnaire included the following question blocks.

- **Question 1 – Rating Scale:** Respondents were required to provide a definition for the scale anchor terms used in the Five-point Rating Scale.
- **Question 2 – Frequency of Use:** Respondents were required to indicate which term (i.e. none, hourly, daily, weekly, monthly, yearly) best described the frequency of use categories (i.e. never, occasionally, frequently).
- **Question 3 – Purpose of Questionnaire Sections:** For each section in the ACCESS questionnaire, respondents were required to rate their understanding of the purpose for each section and then describe the purpose in their own words.
- **Question 4 – Terminology:** Respondents were required to rate their understanding of a list of human factors terms used in the ACCESS questionnaire and then provide a definition in their own words.
- **Question 5 – Overall Ratings:** Respondents were required to rate their overall impressions with the ACCESS questionnaire for ease of use, validity and utility.

The primary rating scale used in question blocks 3, 4, and 5 comprised a five-point interval scale for agreement/disagreement with a statement. An example scale is provided below in Figure 2.

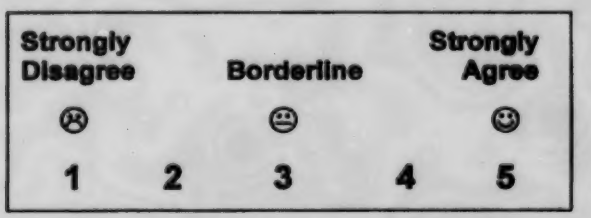


Figure 2: Agree/Disagree Rating Scale

For those questions requiring the respondent to provide definitions or descriptions in their own words, a human factors analyst reviewed each response for accuracy or suitability and respondents were scored accordingly.

Following the completion of both the ACCESS questionnaires and ACCESS evaluation questionnaire, a two-part focus group was held with all participants. In the first part, participants are required to discuss the format, utility, and ease of use of the ACCESS questionnaire and to comment of the need for a briefing. In the second part, discussion was focussed on each of the ACCESS items. For each item, the reasons or causes underlying in-service item deficiencies and performance requirements for future item procurement were discussed. As well, for each item, the design range of commercially available products was demonstrated to participants to provoke discussion on desired design features and concepts.

3.0 RESULTS

The results for the ACCESS questionnaires and the ACCESS Evaluation questionnaire are summarized in the following section. Focus group data is incorporated into the discussion of results. The questionnaire data has been analyzed with independent-samples t-tests or Mann-Whitney U tests (as appropriate), and identified differences are significant at $p \leq 0.05$.

3.1 ACCESS Questionnaire Results

ACCESS questionnaire results are summarized below for participant data (male and female), and summary statistics are provided for each of the ACCESS item questionnaires.

3.1.1 Participant Information:

A total of 58 participants from 1PPCLI completed the ACCESS questionnaire. Table 1 describes the self-reported physical characteristics of the participants and compares these to the results of the 1997 Land Force Survey.

	Participant Information					
	ACCESS Sample			[illegible]		
Variable	n	Mean	s.d.	[illegible]	[illegible]	[illegible]
Height (cm.)	58	**181.2**	6.2	465	175.5	6.6
Weight (Kg.)	58	81.7	9.2	465	81.9	12.5
Chest Circumference	58	**105.9**	9.0	465	102.7	8.2
Waist Circumference	58	**83.6**	4 9	465	92.5	10.4
Boot Size	58	9.5	1 5	Not Available		

Table 1: Male Participant Dimensions

Those anthropometric dimensions, reported by the ACCESS sample, which were found to be significantly different ($p \leq 0.05$) to the Land Force Survey are shaded and bolded. ACCESS respondents reported that they were taller than the Land Force population, with larger chests and narrower waists. Self-reporting bias is the likely cause of these differences.

Table 2 indicates the length of adult service (Regular Force). The "no briefing" group tended to have somewhat more adult service experience than the "briefing" group.

Length of Adult Service					
1 – 5 Years		6 – 10 Years		[illegible]	
n	%	n	%	[illegible]	
26	45%	26	45%	6	10%

Table 2: Length of Adult Service

Table 3 indicates the number of operational deployments undertaken by respondents. A larger proportion of respondents in the "no briefing" condition had experience with operational deployments than in the "briefing" condition, consistent with their profile of longer adult service.

Operational Deployments							
None		One		Two		Three	
n	%	n	%	n	%	n	%
22	38%	18	31%	14	24%	4	7%

Table 3: Number of Operational Deployments

Overall, the two groups of respondents (i.e. briefed and not briefed) were reasonably matched for the purposes of this investigation.

3.1.2 Questionnaire Item Results:

Results for the following ACCESS questionnaire items are provided in the form of descriptive statistics (Annex C) and as frequency histograms for the percentage of respondents reporting a rating of "unacceptable" (Annex D).

Combat Cap
IECS Fleece Top
IECS Jacket
IECS Parka
Webbing, Battle Order
Load Carriage Vest (Bosnian)
IECS Fleece Pants
IECS Windpants
Socks, MVP
Socks, Gray
Cold Wet Weather Boot

These results are provided for the benefit of the Clothe-the-Solder program. Further statistical analysis of the data and discussion of results, for these individual clothing and equipment items, is beyond the scope of this project.

3.2 Focus Group Results

Focus group reports for each item are provided in Annex E. Each report outlines the in-service item deficiencies and current usage patterns, as detailed by the focus group participants. Performance requirements are detailed and design features and concepts are described.

Comments by Clothe-the-Solder project directors, project managers, and the DCIEM scientific authorities for these items suggest that the focus group data provide useful insights into in-service deficiencies and soldier needs, and direction for performance requirements and design features.

3.3 ACCESS Evaluation Questionnaire

Results obtained from the ACCESS Evaluation questionnaire are summarized below according to each of the five question blocks.

Question 1 - Rating Scale:

Describe the meaning of each point in the rating scale using your own words.

Table 6 provides the number and percentage of written responses judged as satisfactory by the human factors analyst for each of the rating scale terms.

	HF Interpretation					
	Satisfactory		Unsatisfactory		[illegible] Answer	
Terms	N	%	n	%	n	%
Wholly Acceptable	58	100	-	-	-	-
Largely Acceptable	58	100	-	-	-	-
Borderline	55	95	3	5	-	-
Largely Unacceptable	54	93	2	3.5	2	3.5
Wholly Unacceptable	56	97	1	1.5	1	1.5

Figure 6: Rating Scale Interpretation

Generally, almost all respondents provided satisfactory definitions of the rating scale anchoring terms (≥93% acceptable).

Question 2 - Frequency of Use:

Indicate the frequency of use that you feel best describes the following terms.

Participants were required to indicate the frequency of use that they felt best represented the following terms: Never, Occasionally and Frequently (Figure 3, Table 6).

Figure 3 summarizes the number of responses for each of the three frequency of use terms.

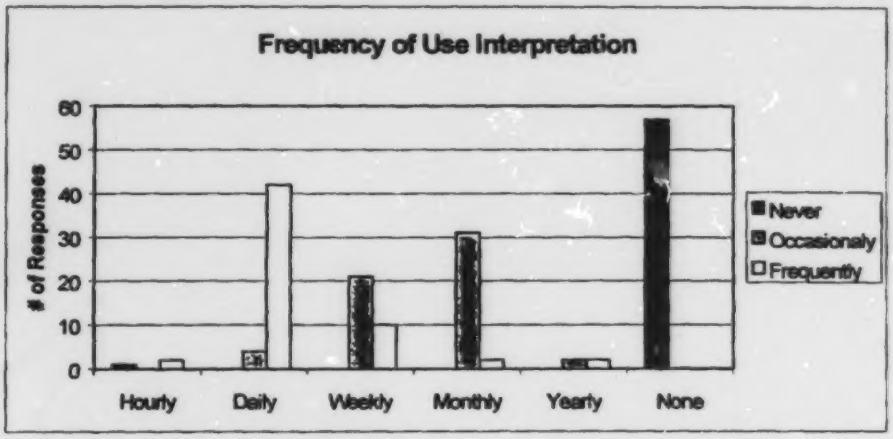


Figure 3: Frequency of Use

Table 7 summarizes the number and percentage of participant responses for each of the Frequency of Use terms.

	Hourly		Daily		Weekly		Monthly		Yearly		None	
Terms	n	%	n	%	n	%	n	%	n	%	n	%
Never	1	2%	-	-	-	-	-	-	-	-	57	98%
Occasionally	-	-	4	7%	21	36%	31	54%	2	3%	-	-
Frequently	2	3%	42	73%	10	18%	2	3%	2	3%	-	-

Table 7: Frequency of Use Interpretation

The following general interpretations can be assigned to the Frequency of Use terms for clothing and equipment.

Never	=	Not at all
Occasionally	=	Weekly to Monthly
Frequently	=	Daily

While the general categorization of the Frequency of Use terms is accurate, there remains a proportion of respondents who would fall outside the stated categories (i.e. 2% for Never, 10% for Occasionally, and 27% for Frequently).

Question 3 - Purpose of Questionnaire Sections:

Rate the questionnaire sections by agreeing or disagreeing with the statement below. Describe what you think is the purpose of each section in your own words.

STATEMENT: *I fully understand the purpose of each of the following sections in the questionnaire.*

Table 8 summarizes the results for the average agree/disagree ratings, for whether the respondents believed they understood the purpose of each section. As well, the percentage of respondents, who were judged by the human factors analyst to have written acceptable interpretations of the purpose of each of the questionnaire sections, are summarized by percentage histograms.

	Rating	HF Interpretation % Acceptable
Section	Mean	25 50 75
Feature Function	4.6	
Feature Durability	4.6	
Activities	4.4	
Climate	4.7	
Stowage	4.5	
Compatibility	4.6	
Whole Item Durability	4.3	
Care	4.5	
Adjustment	4.5	
Vehicles	4.4	
Other	4.2	
Fit	4.6	
Overall	4 6	
Size Issued	4.5	
Replacements	4.5	
Comments	4 6	

Table 8: Purpose of Questionnaire Sections

Generally, respondent ratings indicated they were confident that they understood the purpose of each section of the questionnaire. HF interpretation of respondent written descriptions indicated a reasonably high level of comprehension for all sections (≥75% acceptable).

Question 4 - Terminology:

Rate the following questionnaire terms by agreeing or disagreeing with the statement below. In your own words, provide a definition for each term.

STATEMENT: *I fully understand the meaning of each of the following terms in the questionnaire.*

Table 9 summarizes the results for the average agree/disagree ratings, for whether the respondents believed they understood the meaning of questionnaire terminology. As well, the percentage of respondents, who were judged by the human factors analyst to have written acceptable definitions of these terms, are summarized by percentage histograms.

Terms	Rating Mean	HF Interpretations % Acceptable 25 50 75
Compatibility	4.6	
Dexterity	4.1	
Durability	4.6	
Layering	4.5	
Stability	4.1	
Stowage	4.5	
Traction	4.3	
Ventilation	4.6	

Table 9: Questionnaire Terminology

Generally, respondent ratings indicated that they were confident that they knew the definitions for each of the questionnaire terms. The HF assessment of respondent definitions indicated that, while the respondent ratings were in general agreement with the HF assessment of their definitions, two terms were misunderstood by respondents: dexterity and stability. For both of these terms, however, respondents believed, based on their ratings, that they did understand their meaning.

Question 5 – Overall Ratings:

Rate your overall impressions of the questionnaire, by agreeing or disagreeing with the statements below.

Table 10 summarizes the average agree/disagree ratings, as well as the percentage of respondents who disagreed with each statement (i.e. a rating less than 3).

[illegible]	Mean	s.d.	Rating Scale: Strongly Disagree 1 2 3 4
Easy to understand	4.4	0.6	
Easy to complete	4.2	0.8	
Can indicate all concerns	3.4	1 3	
Rating scale easy to use	4.4	0.7	
Know my height	4 8	0.5	
Know my weight	4 8	0.5	
Know my chest size	4.1	1.2	
Know my waist size	4.7	0.6	
Know my boot size	4.6	0.8	
Know my cap size	4.3	1 1	
Enough space for comments	4.5	0.7	
Drawings indicated features	4.5	0.7	
Understood terms used	4 1	0.9	
Thorough briefing required	3 9	1.1	
Know sizes of all kit items	3 5	1.3	
Instructions clear	4.4	0.7	
Familiar with current UCR	1.9	1.3	
Satisfied with current UCR	1.8	1.2	
Enough time to finish	4.7	0.5	
Want an annual survey	4.5	1 0	

Key: -1 s.d. +1 s.d.

Table 10: Overall Ratings

The following points summarize the findings of the ACCESS Evaluation questionnaire.

- The ACCESS questionnaire design was easy to use and understand.
- A thorough briefing may be required for the ACCESS questionnaire.
- Respondents were confident that they knew their own body dimensions.
- Not all respondents were confident that they knew the sizes of all their kit items.
- Respondents were not familiar with the UCR system and were not satisfied with only providing their concerns through the UCR process.
- All respondent concerns could not be indicated with the ACCESS questionnaire alone.
- Respondents wanted an annual soldier feedback questionnaire for clothing and equipment.

4.0 DISCUSSION

ACCESS comprehension, usability, and utility are discussed in this section, and compared to the results from Part 1 (reference C). The need to include focus groups as part of the survey system is discussed and suggestions are provided for follow on work.

4.1 Questionnaire Comprehension:

Questionnaire comprehension is critical to the validity and inferential utility of the resulting data. To assess questionnaire comprehension, ACCESS respondents, in both Part 1 (CFB Petawawa) and Part 2 (CFB Calgary), were required to provide definitions in their own words for the rating scale anchors, frequency of use categories, and questionnaire terminology.

Rating Scale: Almost all respondent definitions of the rating scale anchors in both Parts 1 and 2 proved to be consistent with the intended meaning and intent of the scale.

Frequency of Use: For both Parts 1 and 2 respondent definitions for the terms "Never", "Occasionally" generally fell into the following respective categories: Not at all, and Weekly to Monthly. Parts 1 and 2 were not consistent in their respondent definitions for "Frequently". In Part 1, respondents were equally divided between "Hourly" and "Daily", whereas most Part 2 respondents indicated only "Daily". As well, while respondents in both Parts did cluster into these categories for these terms, a reasonable proportion of respondents indicated definitions outside these categories.

This suggests that the ACCESS instructions should include more emphasis on Frequency of Use terms and include clearer guidance on their meaning, especially for the term "Frequently".

Interpretation of Terms: Respondents rated their comprehension of questionnaire terminology and of the purpose of various questionnaire sections. Generally, respondents in both Parts 1 and 2 rated their comprehension as high. HF review of the respondents' written definitions of these terms and questionnaire sections, however, revealed some gaps in comprehension; namely the terms "dexterity" and "stability". Furthermore, based on their ratings of comprehension, respondents were not aware of these gaps.

These comprehension gaps suggest that more effort is needed with respect to the instructions and definitions provided in the questionnaire package, and the reading level implied by the terms used in the questionnaire.

4.2 Questionnaire Usability:

ACCESS questionnaire usability is critical to timely completion, comprehension, and User acceptance of the process. Overall, the results of the ACCESS Evaluation questionnaire for both Parts 1 and 2 were positive. Respondents indicated that the questionnaire was easy to understand and complete, the drawings were useful, and the instructions were clear. The rating scale was judged easy to use and most respondents indicated that the "computer-scored" style of questionnaire design was familiar.

Parts 1 and 2 differed in the perceived need for a thorough briefing about the ACCESS questionnaire prior to completing the forms. In Part 1, where 50% of respondents were provided with a thorough briefing, many participants disagreed with the need for such a briefing (31 - 49%). During Part 2, no briefing was provided to the respondents in order to simulate unsupervised distribution methods (e.g. mail outs, Unit issued).

Most Part 2 participants indicated that a thorough briefing was required (~85%). However, the results of Part 2 do not support this need. Questionnaire comprehension was high; in most cases, Part 2 participants scored higher for comprehension than participants from Part 1. While it is true that both Parts 1 and 2 suffered some problems with two terms (i.e. dexterity and stability), this shortcoming can be overcome in the instruction materials provided with the questionnaire.

4.3 Questionnaire Utility:

For both Parts 1 and 2, respondents provided the following similar results on questionnaire utility.

- Respondents reported a strong need for a systematic approach to acquiring soldier feedback.
- Focus group participants provided strong support for the ACCESS tool.
- There was general dissatisfaction or lack of awareness of the current Unsatisfactory Condition Reports (UCR) process for reporting clothing and equipment concerns.
- The utility of self-reported body dimensions and kit sizing was suspect for both Parts 1 and 2, suggesting that self-reporting bias affected the accuracy of these data.
- Not all respondents knew the sizes of all of their kit items.

Overall, both pilot groups from Parts 1 and 2 were consistent in there opinion that the ACCESS questionnaire methodology provided a useful, easy to use method for capturing their concerns with clothing and equipment. Both groups confirmed the need for such a tool.

4.4 Focus Group Utility:

Respondents indicated that they were unable to fully express all their clothing and equipment concerns using the ACCESS questionnaire alone. Most focus group participants agreed that, while the questionnaires were comprehensive in the volume of soldier acceptance information they collected about any one item, the questionnaire was insufficient for capturing the reasons underlying their ratings. While some respondents would provide written comments on their questionnaire sheets, these were idiosyncratic and possibly unrepresentative of the larger group's ratings. Most respondents agreed that a focus group was an effective vehicle for soliciting soldier opinion and for provoking discussion among differing viewpoints to attain a general consensus.

Comments made by members of the Clothe-the-Soldier project also suggested that the additional data derived from the focus group process (i.e. explanations of in-service deficiencies, User-based performance requirements, and desired design features) have proven invaluable in developing item Statements of Requirement and in helping to direct project priorities.

4.5 Future Work:

Based on the results of this project, the following areas for future work are suggested to further resolve the methods and processes necessary to achieve the goals of the ACCESS system.

4.5.1 ACCESS Item Selection Methods:

An ACCESS questionnaire requires a respondent to rate the acceptability of an item for about 100 different questions. While the ACCESS questionnaire design is perceived by soldiers to be easy to complete and comprehensible, completing more than ten item questionnaires at any one time would likely be onerous to the respondent. The resulting fatigue would likely reduce the respondent's attention to detail and result in less thoughtful consideration of individual questions, thereby limiting the quality and reliability of the data. Therefore, since there are many hundreds of in-service items in the Army, there is a need to find a systematic way to down-select items for ACCESS assessment.

There are several possible ways to target or prioritize items for ACCESS. In cases where acquisition initiatives are planned, the ACCESS questionnaire can be used to identify in-service deficiencies with the item being replaced and the focus groups can be used to elicit User-based performance requirements and design guidance to direct acquisition efforts. In the cases where there is no acquisition is planned there needs to be a quick means of identifying deficient in-service items as candidates for the more detailed ACCESS questionnaire and focus groups. One possible method might be a first-pass questionnaire that includes only one overall acceptability question for each of several in-service items. Such a first-pass questionnaire could provide an objective means of prioritizing in-service items for ACCESS analysis and thereby guide future acquisition initiatives.

4.5.2 Unit Distribution Approaches:

While ACCESS has been trialled without a briefing and direct, interactive supervision, there remains a need to trial the questionnaire system remotely at an Army Unit. The most effective method for distributing ACCESS questionnaires to a Unit needs to be determined and then trialled to confirm the suitability of resulting return rates and questionnaire completion quality.

ANNEX A

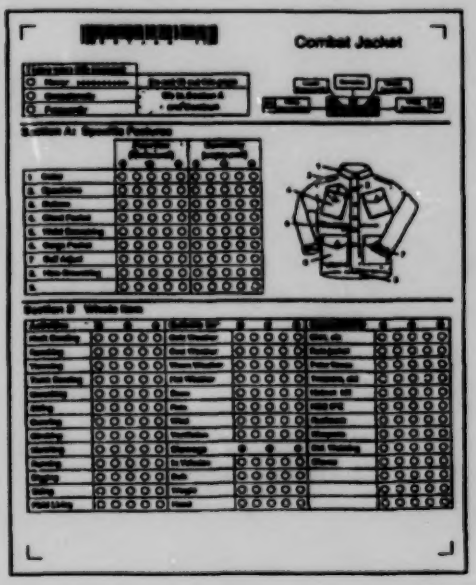
ACCESS QUESTIONNAIRE PACKAGE

How to Fill Out This Questionnaire

How the Questionnaire is organized

- There are 3 pages for each item.
- Each page is divided into sections.
- In each section, there are questions about different aspects of the item and how it performs.
- Definitions of terms used on the questionnaire are listed on the definitions page which follows.

Page One



Answer the "I have worn this garment:" question first. Indicate how often you have worn the garment.
If you have never worn this item, do not complete the pages for this item.

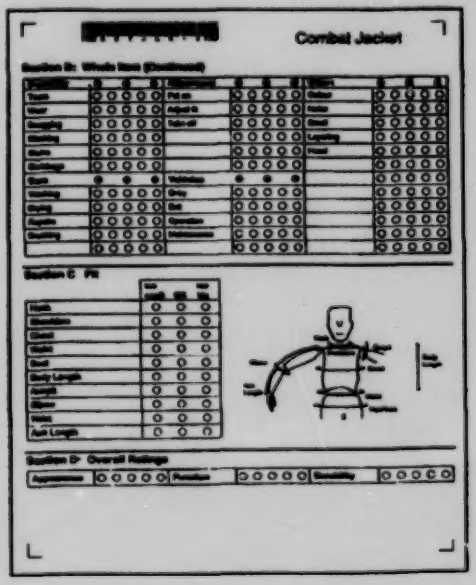
SECTION A: Specific Features

Rate the item, feature by feature, in terms of function and durability.

SECTION B: Whole Item

Rate the item as a whole, in terms of the items listed in each category.

Page Two



SECTION B: Whole Item

Section B is continued from page one.

SECTION C: Fit

Rate the item for each of the fitting categories listed.

SECTION D: Overall Ratings

Provide an overall rating of the item with respect to appearance, function and durability.

Page Three

Section E: Size Issued

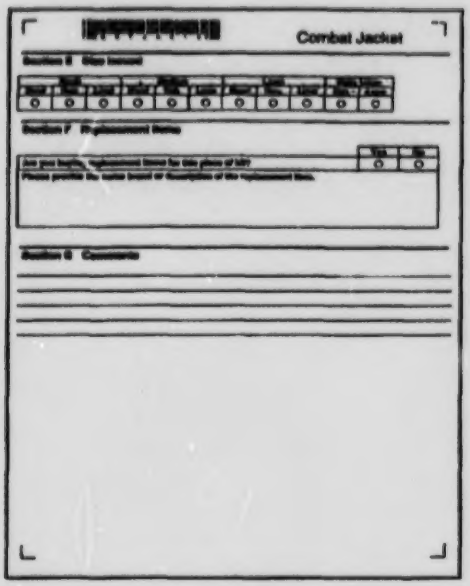
Indicate the size of the item you were issued.

Section F: Replacement Items

Indicate if you purchase a replacement item for this garment. Provide a brand name or description of the commercial item.

Section G: Comments

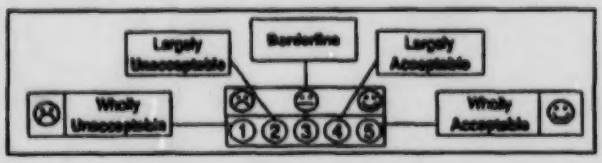
Write any comments you may have concerning good and bad points, improvements etc.



If any questions do not apply to you, strike through the wording. For example, if you haven't experienced snow, strike out the word snow. Do not strike out the circles.

Using the scale

Take a moment to look at this scale and make sure you understand it.



Please follow these simple rules!

- Fill only one circle per question
- If you make an error, circle the correct mark

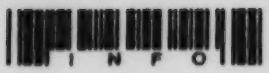
Remember:

- In the comments section, don't worry about spelling. This is not a test. We want your ideas.
- Answer every question. Strike through the words that do not apply.
- There are no "correct" answers. We want your honest opinion, not your friends'.

Definitions of Terms Used in this Questionnaire

Activities	Does the item interfere with the named activity in any way?
Adjustment	Is the item easy to adjust?
Appearance	Does the item look good?
Care	Is it easy to keep the item looking good?
Climate	Does the garment keep you comfortable during these temperatures: Cold: Below -5 C Cool: -5 C to 10 C Warm: 11 C to 25 C Hot: Over 25 C
Compatibility	Does the item work and fit well when used with other garments, weapons or equipment?
Dexterity	Did the gloves hinder the use of your hands?
Durability	How long does the item (or feature) last?
Fit	Does the item fit you?
Function	Does the item (or feature) work well?
Frequently	Do you wear the item on a regular basis?

Layering	How was fit affected by layering the item?
Maintenance	Is the item (or feature) easy to repair and clean?
Movement	Is your movement restricted in any way?
NBC IPE	Integrated protection ensemble. e.g. NBC Suit, respirator, gloves, overboots.
Occasionally	Do you wear the item on an irregular or infrequent basis?
Pinch Grip	To grip using the tip of the thumb and fingers
Power Grip	To grip using the thumb, fingers and palm of the hand.
Stability	Does the item remain in its correct position during activity or vigorous movement?
Stowage	Is the item easy to stow in vehicles or in your webbing?
Traction	Does the item provide adequate friction on all surfaces?
Ventilation	Can you reduce heat buildup by opening the garment (i.e. Venting)



Personal Information

Please provide the requested information in the spaces provided:

Name	Service Number	MOC

Rank				Sex	
Private ○	Junior NCO ○	Senior NCO ○	Officer ○	Male ○	Female ○

Unit	Company (or equivalent)	Platoon (or equivalent)

Length of Service			
0 - 1 Year ○	1 - 5 Years ○	5 - 10 Years ○	Over 10 Years ○

Operational Experience (By Theatre)						
Middle East ○	Golan Heights ○	Sinai ○	Croatia ○	Bosnia ○	Rwanda ○	Cyprus ○
Somalia ○	Cambodia ○	Haiti ○	Other:			

Height (Feet/Inches)																	
<5'1	5'1	5'2	5'3	5'4	5'5	5'6	5'7	5'8	5'9	5'10	5'11	6'0	6'1	6'2	6'3	6'4	6'5	>6'5
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

Weight (Pounds)																		
<130	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	>210
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

Chest Circumference (Inches)																		
<34	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	>50
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

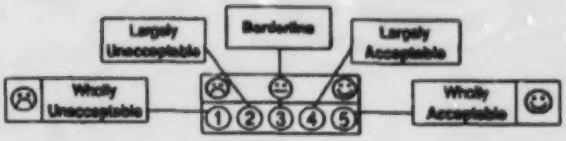
Waist Circumference (Inches)																		
<24	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	>40
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

Boot Size																		
4 5	5	5 5	6	6.5	7	7.5	8	8 5	9	9 5	10	10 5	11	11 5	12	12 5	13	13 5
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

H A T - 1

Combat Cap

I have worn this item:	
○ Never >>>>>>>>>>	Do not fill out this item
○ Occasionally	Go to Section A and Continue
○ Frequently	



Section A: Specific Features

	Function (works well) ☹ 😐 ☺	Durability (wears well) ☹ 😐 ☺
1. Ventilation Holes	○ ○ ○ ○ ○	○ ○ ○ ○ ○
2. All Seams	○ ○ ○ ○ ○	○ ○ ○ ○ ○
3. Peak	○ ○ ○ ○ ○	○ ○ ○ ○ ○
4. Brim	○ ○ ○ ○ ○	○ ○ ○ ○ ○
5.	○ ○ ○ ○ ○	○ ○ ○ ○ ○
6.	○ ○ ○ ○ ○	○ ○ ○ ○ ○
7.	○ ○ ○ ○ ○	○ ○ ○ ○ ○
8.	○ ○ ○ ○ ○	○ ○ ○ ○ ○
9.	○ ○ ○ ○ ○	○ ○ ○ ○ ○

Section B: Whole Item

Activities ☹ 😐 ☺	Suitable for: ☹ 😐 ☺	Compatibility ☹ 😐 ☺
Neck Bending ○ ○ ○ ○ ○	Cool Weather ○ ○ ○ ○ ○	Shirt, cbt ○ ○ ○ ○ ○
Reaching ○ ○ ○ ○ ○	Warm Weather ○ ○ ○ ○ ○	Rain jacket ○ ○ ○ ○ ○
Throwing ○ ○ ○ ○ ○	Hot Weather ○ ○ ○ ○ ○	IECS Jacket ○ ○ ○ ○ ○
Trunk Bending ○ ○ ○ ○ ○	Rain ○ ○ ○ ○ ○	Combat Jacket ○ ○ ○ ○ ○
Crouching ○ ○ ○ ○ ○	Wind ○ ○ ○ ○ ○	Rucksack ○ ○ ○ ○ ○
Sitting ○ ○ ○ ○ ○	Ventilation ○ ○ ○ ○ ○	Weapons ○ ○ ○ ○ ○
Crawling ○ ○ ○ ○ ○	○ ○ ○ ○ ○	Hoods ○ ○ ○ ○ ○
Climbing ○ ○ ○ ○ ○	○ ○ ○ ○ ○	Gloves ○ ○ ○ ○ ○
Marching ○ ○ ○ ○ ○	**Stowage** ☹ 😐 ☺	○ ○ ○ ○ ○
Running ○ ○ ○ ○ ○	In Webbing ○ ○ ○ ○ ○	○ ○ ○ ○ ○
Digging ○ ○ ○ ○ ○	Bulk ○ ○ ○ ○ ○	○ ○ ○ ○ ○
Field Living ○ ○ ○ ○ ○	Weight ○ ○ ○ ○ ○	○ ○ ○ ○ ○
○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○

HAT - 21

Combat Cap

Section B: Whole Item (Continued)

Durability	☹	😐	☺
Tears	○ ○	○	○ ○
Wear	○ ○	○	○ ○
Snagging	○ ○	○	○ ○
Stitching	○ ○	○	○ ○
Stains	○ ○	○	○ ○
	○ ○	○	○ ○

Adjustment	☹	😐	☺
Put on	○ ○	○	○ ○
Take off	○ ○	○	○ ○
	○ ○	○	○ ○
	○ ○	○	○ ○
	○ ○	○	○ ○
	○ ○	○	○ ○

Other:	☹	😐	☺
Colour	○ ○	○	○ ○
Noise	○ ○	○	○ ○
Smell	○ ○	○	○ ○
Layering	○ ○	○	○ ○
Stability	○ ○	○	○ ○
	○ ○	○	○ ○

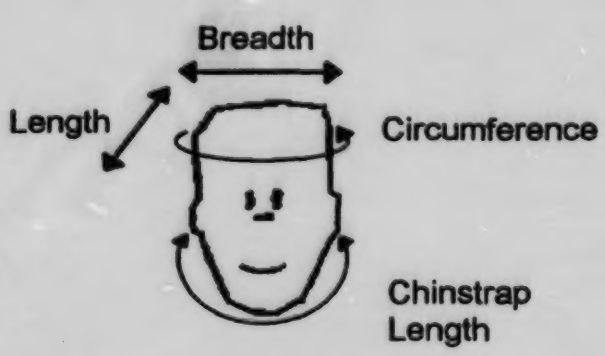
Care	☹	😐	☺
Washing	○ ○	○	○ ○
Drying	○ ○	○	○ ○
Repairs	○ ○	○	○ ○
	○ ○	○	○ ○
	○ ○	○	○ ○

Vehicles	☹	😐	☺
Entry	○ ○	○	○ ○
Exit	○ ○	○	○ ○
Operation	○ ○	○	○ ○
Maintenance	○ ○	○	○ ○
	○ ○	○	○ ○

Comfort	☹	😐	☺
Overall	○ ○	○	○ ○
	○ ○	○	○ ○
	○ ○	○	○ ○
	○ ○	○	○ ○
	○ ○	○	○ ○

Section C: Fit

	too small	OK	too big
Head Breadth	○	○	○
Head Length	○	○	○
Head Circumference	○	○	○
	○	○	○
	○	○	○
	○	○	○
	○	○	○
	○	○	○
	○	○	○
	○	○	○



Section D: Overall Ratings

Appearance	○ ○ ○ ○ ○	Function	○ ○ ○ ○ ○	Durability	○ ○ ○ ○ ○

HAT - 3

Combat Cap

Section E: Size Issued

Section F: Replacement Items

	Yes	No
Are you buying replacement items for this piece of kit?	O	O

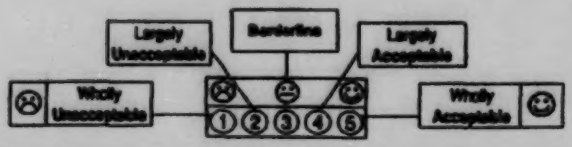
Please provide the name brand or description of the replacement item:

Section G: Comments

I E C S F T - 1

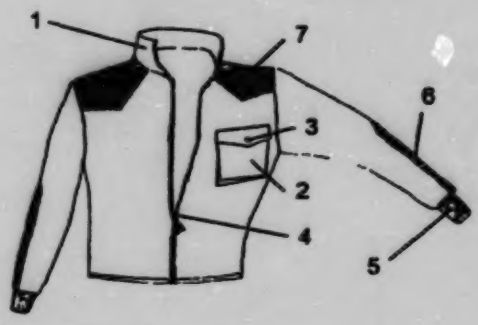
IECS Fleece Top

I have worn this garment:	
○ Never >>>>>>>>>>	Do not fill out this item
○ Occasionally	Go to Section A and Continue
○ Frequently	



Section A: Specific Features

	Function (works well) ☹ 😐 ☺	Durability (wears well) ☹ 😐 ☺
1. Collar Elastic	○ ○ ○ ○ ○	○ ○ ○ ○ ○
2. Chest Pocket	○ ○ ○ ○ ○	○ ○ ○ ○ ○
3. Chest Pocket Snap	○ ○ ○ ○ ○	○ ○ ○ ○ ○
4. Zipper	○ ○ ○ ○ ○	○ ○ ○ ○ ○
5. Wrist Elastic	○ ○ ○ ○ ○	○ ○ ○ ○ ○
6. Forearm Protector	○ ○ ○ ○ ○	○ ○ ○ ○ ○
7. Shoulder Protector	○ ○ ○ ○ ○	○ ○ ○ ○ ○
8.	○ ○ ○ ○ ○	○ ○ ○ ○ ○
9.	○ ○ ○ ○ ○	○ ○ ○ ○ ○



Section B: Whole Item

Activities	☹	😐	☺
Neck Bending	○	○	○
Reaching	○	○	○
Throwing	○	○	○
Trunk Bending	○	○	○
Crouching	○	○	○
Sitting	○	○	○
Crawling	○	○	○
Climbing	○	○	○
Marching	○	○	○
Running	○	○	○
Digging	○	○	○
Skiing	○	○	○
Field Living	○	○	○

Suitable for:	☹	😐	☺
Cold Weather	○	○	○
Cool Weather	○	○	○
Warm Weather	○	○	○
Hot Weather	○	○	○
Snow	○	○	○
Rain	○	○	○
Wind	○	○	○
Ventilation	○	○	○
Stowage	☹	😐	☺
In Vehicles	○	○	○
Bulk	○	○	○
Weight	○	○	○
	○	○	○

Compatibility	☹	😐	☺
Shirt, cbt	○	○	○
Rain jacket	○	○	○
Fleece pants	○	○	○
Trousers, cbt	○	○	○
Helmet, M1	○	○	○
NBC IPE	○	○	○
Rucksack	○	○	○
Weapons	○	○	○
Std. Webbing	○	○	○
Gloves	○	○	○
IECS Jacket	○	○	○
Undershirt	○	○	○
IECS Parka	○	○	○

IECSFT-2

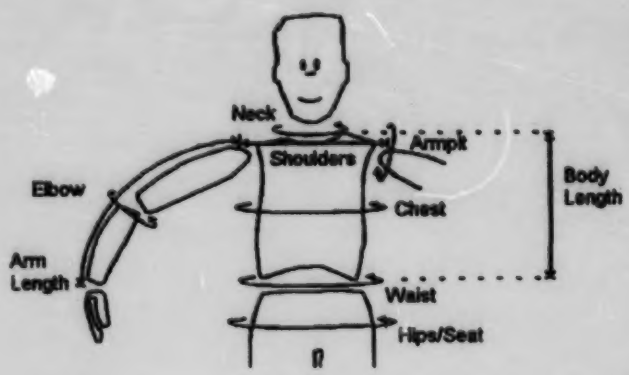
IECS Fleece Top

Section B: Whole Item (Continued)

Durability	☹	😐	☺	Adjustment	☹	😐	☺	Other:	☹	😐	☺
Tears	○	○	○	Put on	○	○	○	Colour	○	○	○
Wear	○	○	○	Adjust fit	○	○	○	Noise	○	○	○
Snagging	○	○	○	Take off	○	○	○	Smell	○	○	○
Stitching	○	○	○		○	○	○	Layering	○	○	○
Stains	○	○	○		○	○	○		○	○	○
Shrinkage	○	○	○		○	○	○		○	○	○
Care	☹	😐	☺	**Vehicles**	☹	😐	☺		○	○	○
Washing	○	○	○	Entry	○	○	○		○	○	○
Drying	○	○	○	Exit	○	○	○		○	○	○
Repairs	○	○	○	Operation	○	○	○		○	○	○
	○	○	○	Maintenance	○	○	○		○	○	○
	○	○	○		○	○	○		○	○	○

Section C: Fit

	too small	OK	too big
Neck	○	○	○
Shoulders	○	○	○
Chest	○	○	○
Waist	○	○	○
Hips/Seat	○	○	○
Body Length	○	○	○
Armpit	○	○	○
Elbow	○	○	○
Wrist	○	○	○
Arm Length	○	○	○



Section D: Overall Ratings

Appearance	○ ○ ○ ○ ○	Function	○ ○ ○ ○ ○	Durability	○ ○ ○ ○ ○

IECSFT-3

IECS Fleece Top

Section E: Size Issued

Small			Medium			Large			Extra Large	
Short	Reg.	Long	Short	Reg.	Long	Short	Reg.	Long	Reg.	Long
○	○	○	○	○	○	○	○	○	○	○

Section F: Replacement Items

	Yes	No
Are you buying replacement items for this piece of kit?	○	○

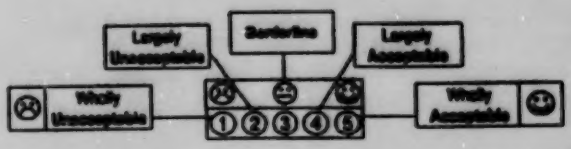
Please provide the name brand or description of the replacement item:

Section G: Comments

I E C S J A K - 1 1

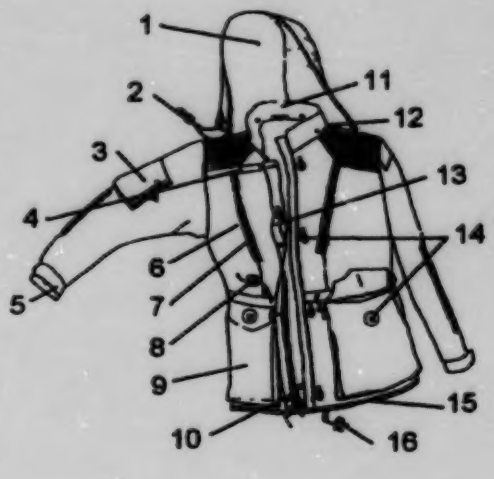
IECS Jacket

I have worn this garment:	
○ Never >>>>>>>>>>	Do not fill out this item
○ Occasionally	Go to Section A and Continue
○ Frequently	



Section A: Specific Features

	Function (works well) ☹ 😐 ☺	Durability (wears well) ☹ 😐 ☺
1. Hood	○ ○ ○ ○ ○	○ ○ ○ ○ ○
2. Hood Drawstring	○ ○ ○ ○ ○	○ ○ ○ ○ ○
3. Arm Pocket	○ ○ ○ ○ ○	○ ○ ○ ○ ○
4. Velcro Name Tag	○ ○ ○ ○ ○	○ ○ ○ ○ ○
5. Cuff	○ ○ ○ ○ ○	○ ○ ○ ○ ○
6. Breast Pocket	○ ○ ○ ○ ○	○ ○ ○ ○ ○
7. Pocket Zip	○ ○ ○ ○ ○	○ ○ ○ ○ ○
8. Waist Drawstring	○ ○ ○ ○ ○	○ ○ ○ ○ ○
9. Cargo Pocket	○ ○ ○ ○ ○	○ ○ ○ ○ ○
10. Main Zip	○ ○ ○ ○ ○	○ ○ ○ ○ ○
11. Collar	○ ○ ○ ○ ○	○ ○ ○ ○ ○
12. Hood Pouch	○ ○ ○ ○ ○	○ ○ ○ ○ ○
13. Rank Slide	○ ○ ○ ○ ○	○ ○ ○ ○ ○
14. Buttons	○ ○ ○ ○ ○	○ ○ ○ ○ ○
15. Rear Pouch	○ ○ ○ ○ ○	○ ○ ○ ○ ○
16. Hem Drawstring	○ ○ ○ ○ ○	○ ○ ○ ○ ○



Section B: Whole Item

Activities	☹	😐	☺
Neck Bending	○	○	○
Reaching	○	○	○
Throwing	○	○	○
Trunk Bending	○	○	○
Crouching	○	○	○
Sitting	○	○	○
Crawling	○	○	○
Climbing	○	○	○
Marching	○	○	○
Running	○	○	○
Digging	○	○	○
Skiing	○	○	○
Field Living	○	○	○

Durability	☹	😐	☺
Tears	○	○	○
Wear	○	○	○
Snagging	○	○	○
Stitching	○	○	○
Stains	○	○	○
Shrinkage	○	○	○

Care	☹	😐	☺
Washing	○	○	○
Drying	○	○	○
Repairs	○	○	○
Brushing	○	○	○
	○	○	○

Suitable for:	☹	😐	☺
Cold Weather	○	○	○
Cool Weather	○	○	○
Warm Weather	○	○	○
Hot Weather	○	○	○
Snow	○	○	○
Rain	○	○	○
Wind	○	○	○
Ventilation	○	○	○

Stowage	☹	😐	☺
In Vehicles	○	○	○
Bulk	○	○	○
Weight	○	○	○
Hood	○	○	○

Adjustment	☹	😐	☺
Put on	○	○	○
Adjust fit	○	○	○
Take off	○	○	○
	○	○	○
	○	○	○
	○	○	○

Vehicles	☹	😐	☺
Entry	○	○	○
Exit	○	○	○
Operation	○	○	○
Maintenance	○	○	○
	○	○	○

Compatibility	☹	😐	☺
Shirt, cbt	○	○	○
Rain jacket	○	○	○
Polar fleece	○	○	○
Trousers, cbt	○	○	○
Helmet, M1	○	○	○
NBC IPE	○	○	○
Rucksack	○	○	○
Weapons	○	○	○
Std. Webbing	○	○	○
Gloves	○	○	○
IECS Windpants	○	○	○
	○	○	○
	○	○	○

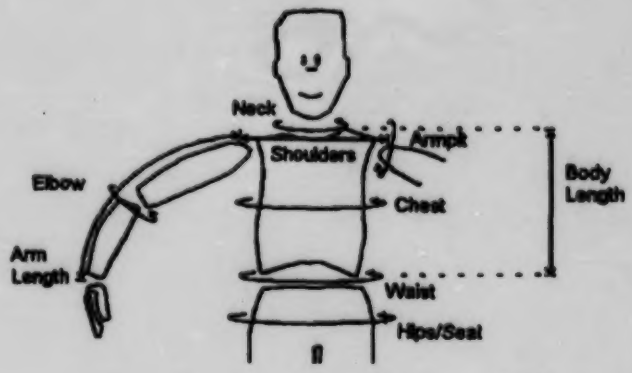
Other:	☹	😐	☺
Colour	○	○	○
Noise	○	○	○
Smell	○	○	○
Layering	○	○	○
	○	○	○
	○	○	○
	○	○	○
	○	○	○
	○	○	○
	○	○	○
	○	○	○
	○	○	○

IECSJAK-3

IECS Jacket

Section C: Fit

	too small	OK	too big
Neck	O	O	O
Shoulders	O	O	O
Chest	O	O	O
Waist	O	O	O
Hips/Seat	O	O	O
Body Length	O	O	O
Armpit	O	O	O
Elbow	O	O	O
Wrist	O	O	O
Arm Length	O	O	O



Section D: Overall Ratings

Appearance	O O O O O	Function	O O O O O	Durability	O O O O O

Section E: Size Issued

Small			Medium			Large			Extra Large	
Short	Reg.	Long	Short	Reg.	Long	Short	Reg.	Long	Reg.	Long
O	O	O	O	O	O	O	O	O	O	O

Section F: Replacement Items

	Yes	No
Are you buying replacement items for this piece of kit?	O	O

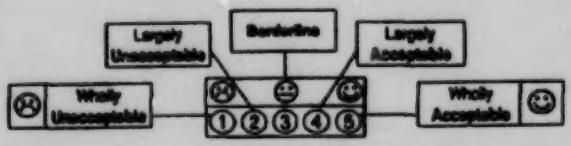
Please provide the name brand or description of the replacement item:

Section G: Comments

PARKA - 1

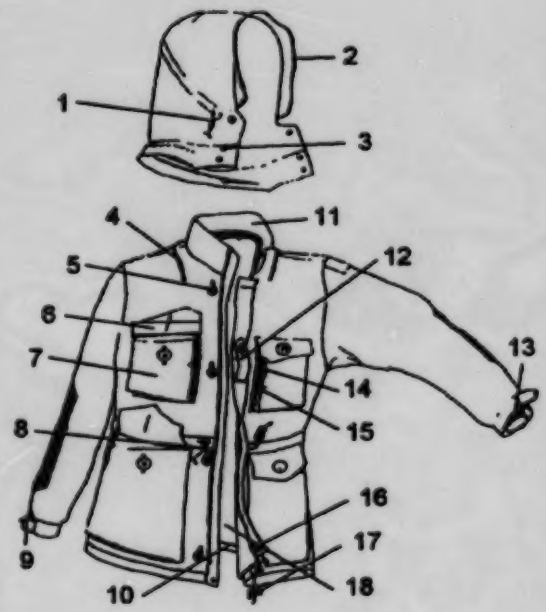
IECS Parka

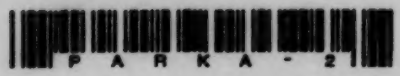
I have worn this garment:	
○ Never	Do not fill out this page
○ Less than ten times	Go to Section A and Continue
○ More than ten times	



Section A: Specific Features

	Function (works well)	Durability (wears well)
1. Hood Drawstring	○ ○ ○ ○ ○	○ ○ ○ ○ ○
2. Hood Stiffener	○ ○ ○ ○ ○	○ ○ ○ ○ ○
3. Hood Buttons	○ ○ ○ ○ ○	○ ○ ○ ○ ○
4. Hood Zip	○ ○ ○ ○ ○	○ ○ ○ ○ ○
5. Buttons	○ ○ ○ ○ ○	○ ○ ○ ○ ○
6. Velcro Name Tag	○ ○ ○ ○ ○	○ ○ ○ ○ ○
7. Breast Pocket	○ ○ ○ ○ ○	○ ○ ○ ○ ○
8. Waist Drawstring	○ ○ ○ ○ ○	○ ○ ○ ○ ○
9. Cuff Velcro	○ ○ ○ ○ ○	○ ○ ○ ○ ○
10. Rear Pouch	○ ○ ○ ○ ○	○ ○ ○ ○ ○
11. Collar	○ ○ ○ ○ ○	○ ○ ○ ○ ○
12. Rank Slide	○ ○ ○ ○ ○	○ ○ ○ ○ ○
13. Elastic Cuff	○ ○ ○ ○ ○	○ ○ ○ ○ ○
14. Side Pocket	○ ○ ○ ○ ○	○ ○ ○ ○ ○
15. Side Pocket Zip	○ ○ ○ ○ ○	○ ○ ○ ○ ○
16. Main Zip	○ ○ ○ ○ ○	○ ○ ○ ○ ○
17. Hip Drawstring	○ ○ ○ ○ ○	○ ○ ○ ○ ○
18. Liner	○ ○ ○ ○ ○	○ ○ ○ ○ ○





Section B: Whole Garment

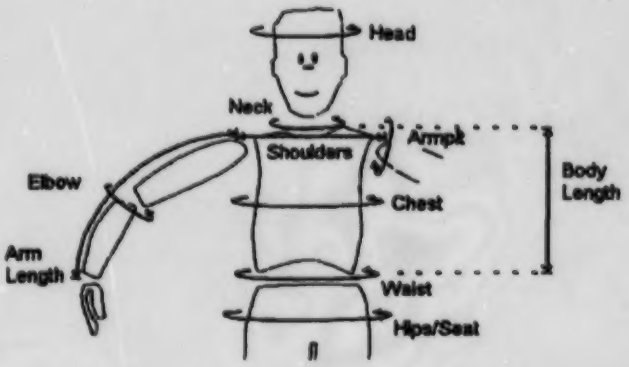
Activities	☹	😐	☺	Suitable for:	☹	😐	☺	Compatibility	☹	😐	☺
Neck Bending	○	○	○	Cold Weather	○	○	○	Shirt, mans, field	○	○	○
Reaching	○	○	○	Cool Weather	○	○	○	IECS Jacket	○	○	○
Throwing	○	○	○	Warm Weather	○	○	○	Fleece Top	○	○	○
Trunk Bending	○	○	○	Hot Weather	○	○	○	Trousers, cbt	○	○	○
Crouching	○	○	○	Snow	○	○	○	Helmet, M1	○	○	○
Sitting	○	○	○	Rain	○	○	○	NBC IPE	○	○	○
Crawling	○	○	○	Wind	○	○	○	Rucksack	○	○	○
Climbing	○	○	○	**Stowage**	☹	😐	☺	Weapons	○	○	○
Marching	○	○	○	In Webbing	○	○	○	Std. Webbing	○	○	○
Running	○	○	○	In Vehicles	○	○	○	Chest Webbing	○	○	○
Digging	○	○	○	Bulk	○	○	○	Handwear	○	○	○
Skiing	○	○	○	Weight	○	○	○		○	○	○
Field Living	○	○	○	Hood	○	○	○		○	○	○
Durability	☹	😐	☺	**Adjustment**	☹	😐	☺	**Other:**	☹	😐	☺
Tears	○	○	○	Put on	○	○	○	Colour	○	○	○
Wear	○	○	○	Adjust fit	○	○	○	Noise	○	○	○
Snagging	○	○	○	Take off	○	○	○	Smell	○	○	○
Stitching	○	○	○		○	○	○	Layering	○	○	○
Stains	○	○	○		○	○	○	Hood	○	○	○
	○	○	○		○	○	○		○	○	○
Care	☹	😐	☺	**Vehicles**	☹	😐	☺		○	○	○
Washing	○	○	○	Entry	○	○	○		○	○	○
Drying	○	○	○	Exit	○	○	○		○	○	○
Repairs	○	○	○	Operation	○	○	○		○	○	○
	○	○	○	Maintenance	○	○	○		○	○	○
	○	○	○		○	○	○		○	○	○
	○	○	○		○	○	○		○	○	○

PARKA-2

IECS Parka

Section C: Fit

	too small	OK	too big
Neck	O	O	O
Shoulders	O	O	O
Chest	O	O	O
Waist	O	O	O
Hips/Seat	O	O	O
Body Length	O	O	O
Armpit	O	O	O
Elbow	O	O	O
Wrist	O	O	O
Arm Length	O	O	O



Section D: Overall Ratings

Appearance	O O O O O	Function	O O O O O	Durability	O O O O O

Section E: Size Issued

Small			Medium			Large			Extra Large	
Short	Reg.	Long	Short	Reg.	Long	Short	Reg.	Long	Reg.	Long
O	O	O	O	O	O	O	O	O	O	O

Section F: Replacement Items

	Yes	No
Are you buying replacement items for this piece of kit?	O	O

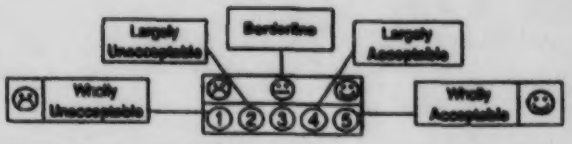
Please provide the name brand or description of the replacement item:

Section G: Comments

BORD - 1

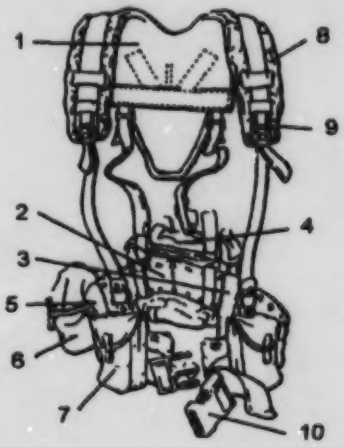
Webbing, Battle Order

I have worn this item:	
○ Never >>>>>>>>>>	Do not fill out this item
○ Occasionally	Go to Section A and Continue
○ Frequently	



Section A: Specific Features

	Function (works well) ☹ 😐 ☺	Durability (wears well) ☹ 😐 ☺
1. Yoke Straps	○ ○ ○ ○ ○	○ ○ ○ ○ ○
2. Utility Belt	○ ○ ○ ○ ○	○ ○ ○ ○ ○
3. Bayonet Holder	○ ○ ○ ○ ○	○ ○ ○ ○ ○
4. Small Field Pack	○ ○ ○ ○ ○	○ ○ ○ ○ ○
5. KFS Carrier	○ ○ ○ ○ ○	○ ○ ○ ○ ○
6. Canteen Carrier	○ ○ ○ ○ ○	○ ○ ○ ○ ○
7. Magazine Pouch	○ ○ ○ ○ ○	○ ○ ○ ○ ○
8. Shoulder Straps	○ ○ ○ ○ ○	○ ○ ○ ○ ○
9. Strap Adjusters	○ ○ ○ ○ ○	○ ○ ○ ○ ○
10. Belt Connector	○ ○ ○ ○ ○	○ ○ ○ ○ ○



Section B: Whole Item

Activities ☹ 😐 ☺	Suitable for: ☹ 😐 ☺	Compatibility: ☹ 😐 ☺
Reaching ○ ○ ○ ○ ○	Cold Weather ○ ○ ○ ○ ○	Undershirt ○ ○ ○ ○ ○
Throwing ○ ○ ○ ○ ○	Cool Weather ○ ○ ○ ○ ○	Combat shirt ○ ○ ○ ○ ○
Trunk Bending ○ ○ ○ ○ ○	Warm Weather ○ ○ ○ ○ ○	Combat jacket ○ ○ ○ ○ ○
Crouching ○ ○ ○ ○ ○	Hot Weather ○ ○ ○ ○ ○	Trousers, cbt ○ ○ ○ ○ ○
Sitting ○ ○ ○ ○ ○	Snow ○ ○ ○ ○ ○	Helmet, M1 ○ ○ ○ ○ ○
Crawling ○ ○ ○ ○ ○	Rain ○ ○ ○ ○ ○	Parka ○ ○ ○ ○ ○
Climbing ○ ○ ○ ○ ○	Wind ○ ○ ○ ○ ○	NBC garment ○ ○ ○ ○ ○
Marching ○ ○ ○ ○ ○	Ventilation ○ ○ ○ ○ ○	Weapons ○ ○ ○ ○ ○
Running ○ ○ ○ ○ ○	**Stowage** ☹ 😐 ☺	Frag Vest ○ ○ ○ ○ ○
Digging ○ ○ ○ ○ ○	In Vehicles ○ ○ ○ ○ ○	Rucksack ○ ○ ○ ○ ○
Skiing ○ ○ ○ ○ ○	Bulk ○ ○ ○ ○ ○	○ ○ ○ ○ ○
Field Living ○ ○ ○ ○ ○	Weight ○ ○ ○ ○ ○	○ ○ ○ ○ ○
○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○

BORD - 2

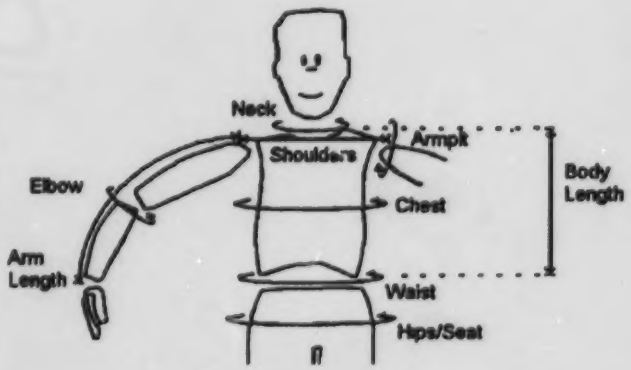
Webbing, Battle Order

Section B: Whole Item (Continued)

Durability	☹	😐	☺	Adjustment	☹	😐	☺	Other:	☹	😐	☺
Tears	○ ○ ○ ○ ○			Put on	○ ○ ○ ○ ○			Colour	○ ○ ○ ○ ○		
Wear	○ ○ ○ ○ ○			Adjust fit	○ ○ ○ ○ ○			Noise	○ ○ ○ ○ ○		
Snagging	○ ○ ○ ○ ○			Take off	○ ○ ○ ○ ○			Smell	○ ○ ○ ○ ○		
Stitching	○ ○ ○ ○ ○				○ ○ ○ ○ ○			Layering	○ ○ ○ ○ ○		
Stains	○ ○ ○ ○ ○				○ ○ ○ ○ ○				○ ○ ○ ○ ○		
	○ ○ ○ ○ ○				○ ○ ○ ○ ○				○ ○ ○ ○ ○		
Care	☹	😐	☺	**Vehicles**	☹	😐	☺	**Comfort**	☹	😐	☺
Washing	○ ○ ○ ○ ○			Entry	○ ○ ○ ○ ○			Neck	○ ○ ○ ○ ○		
Drying	○ ○ ○ ○ ○			Exit	○ ○ ○ ○ ○			Shoulders	○ ○ ○ ○ ○		
Repairs	○ ○ ○ ○ ○			Operation	○ ○ ○ ○ ○			Chest	○ ○ ○ ○ ○		
Brushing	○ ○ ○ ○ ○			Maintenance	○ ○ ○ ○ ○			Armpits	○ ○ ○ ○ ○		
	○ ○ ○ ○ ○				○ ○ ○ ○ ○			Waist	○ ○ ○ ○ ○		

Section C: Fit

	too small	OK	too big
Neck	○	○	○
Shoulders	○	○	○
Chest	○	○	○
Waist	○	○	○
Body Length	○	○	○
	○	○	○
	○	○	○
	○	○	○
	○	○	○
	○	○	○



Section D: Overall Ratings

Appearance	○ ○ ○ ○ ○	Function	○ ○ ○ ○ ○	Durability	○ ○ ○ ○ ○

Webbing, Battle Order

Section E: Size Issued

Section F: Replacement Items

	Yes	No
Are you buying replacement items for this piece of kit?	○	○

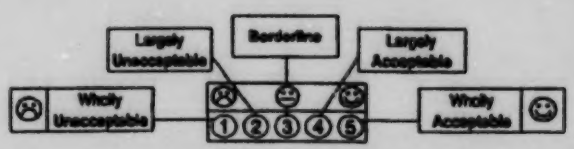
Please provide the name brand or description of the replacement item:

Section G: Comments

LCV - 1

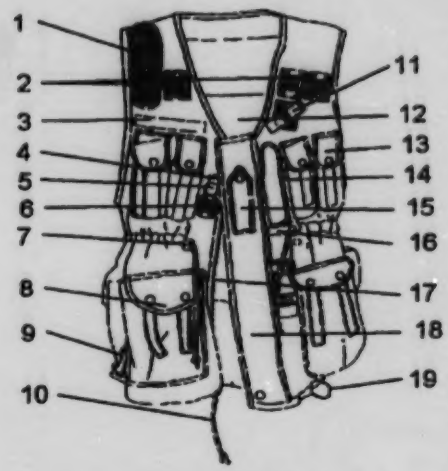
Load Carriage Vest

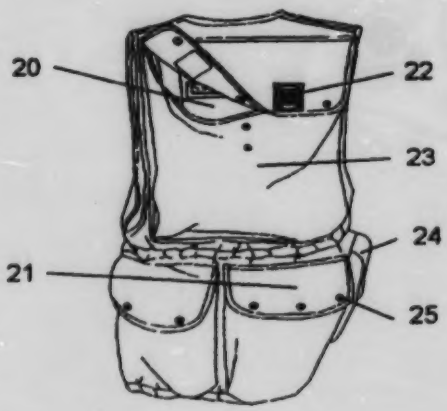
I have worn this item:	
○ Never >>>>>>>>>>	Do not fill out this item
○ Occasionally	Go to Section A and Continue
○ Frequently	

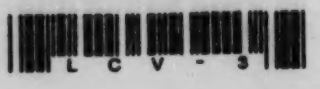


Section A: Specific Features

	Function (works well) ☹ 😐 ☺	Durability (wears well) ☹ 😐 ☺
1. Rifle Butt Pad	○ ○ ○ ○ ○	○ ○ ○ ○ ○
2. Grenade Retainer	○ ○ ○ ○ ○	○ ○ ○ ○ ○
3. Name Tag	○ ○ ○ ○ ○	○ ○ ○ ○ ○
4. Pen Light Sleeve	○ ○ ○ ○ ○	○ ○ ○ ○ ○
5. Pen Light Tiedown	○ ○ ○ ○ ○	○ ○ ○ ○ ○
6. Flashlight Retainer	○ ○ ○ ○ ○	○ ○ ○ ○ ○
7. Waist Drawstring	○ ○ ○ ○ ○	○ ○ ○ ○ ○
8. Grenade Pouch	○ ○ ○ ○ ○	○ ○ ○ ○ ○
9. Utility Clip	○ ○ ○ ○ ○	○ ○ ○ ○ ○
10. Hip Drawstring	○ ○ ○ ○ ○	○ ○ ○ ○ ○
11. Handset Retainer	○ ○ ○ ○ ○	○ ○ ○ ○ ○
12. Plate Pocket	○ ○ ○ ○ ○	○ ○ ○ ○ ○
13. Magazine Pockets	○ ○ ○ ○ ○	○ ○ ○ ○ ○
14. Pen Sleeve	○ ○ ○ ○ ○	○ ○ ○ ○ ○
15. Rank Sleeve	○ ○ ○ ○ ○	○ ○ ○ ○ ○
16. Bayonet Holder	○ ○ ○ ○ ○	○ ○ ○ ○ ○
17. Main Zipper	○ ○ ○ ○ ○	○ ○ ○ ○ ○
18. Main Closure Flap	○ ○ ○ ○ ○	○ ○ ○ ○ ○
19. Carrier Attachment	○ ○ ○ ○ ○	○ ○ ○ ○ ○
20. Plate Pocket	○ ○ ○ ○ ○	○ ○ ○ ○ ○
21. Butt Pack	○ ○ ○ ○ ○	○ ○ ○ ○ ○
22. Utility Retainers	○ ○ ○ ○ ○	○ ○ ○ ○ ○
23. Cargo Pocket	○ ○ ○ ○ ○	○ ○ ○ ○ ○
24. Canteen Pouch	○ ○ ○ ○ ○	○ ○ ○ ○ ○
25. Snaps	○ ○ ○ ○ ○	○ ○ ○ ○ ○







Load Carriage Vest

Section B: Whole Item

Activities	☹	😐	☺
Neck Bending	○	○	○
Reaching	○	○	○
Throwing	○	○	○
Trunk Bending	○	○	○
Crouching	○	○	○
Sitting	○	○	○
Crawling	○	○	○
Climbing	○	○	○
Marching	○	○	○
Running	○	○	○
Digging	○	○	○
Skiing	○	○	○
Field Living	○	○	○

Durability	☹	😐	☺
Tears	○	○	○
Wear	○	○	○
Snagging	○	○	○
Stitching	○	○	○
Stains	○	○	○
	○	○	○

Care	☹	😐	☺
Washing	○	○	○
Drying	○	○	○
Repairs	○	○	○
Brushing	○	○	○
	○	○	○

Suitable for:	☹	😐	☺
Cold Weather	○	○	○
Cool Weather	○	○	○
Warm Weather	○	○	○
Hot Weather	○	○	○
Snow	○	○	○
Rain	○	○	○
Wind	○	○	○
Ventilation	○	○	○

Stowage	☹	😐	☺
In Webbing	○	○	○
In Vehicles	○	○	○
Bulk	○	○	○
Weight	○	○	○

Adjustment	☹	😐	☺
Put on	○	○	○
Adjust fit	○	○	○
Take off	○	○	○
	○	○	○
	○	○	○
	○	○	○

Vehicles	☹	😐	☺
Entry	○	○	○
Exit	○	○	○
Operation	○	○	○
Maintenance	○	○	○
	○	○	○

Compatibility	☹	😐	☺
Undershirt	○	○	○
Combat shirt	○	○	○
Combat jacket	○	○	○
Trousers, cbt	○	○	○
Helmet, M1	○	○	○
Parka	○	○	○
NBC garment	○	○	○
Webbing	○	○	○
Weapons	○	○	○
Frag Vest	○	○	○
IECS Jacket	○	○	○
	○	○	○
	○	○	○

Other:	☹	😐	☺
Colour	○	○	○
Noise	○	○	○
Smell	○	○	○
Layering	○	○	○
	○	○	○
	○	○	○

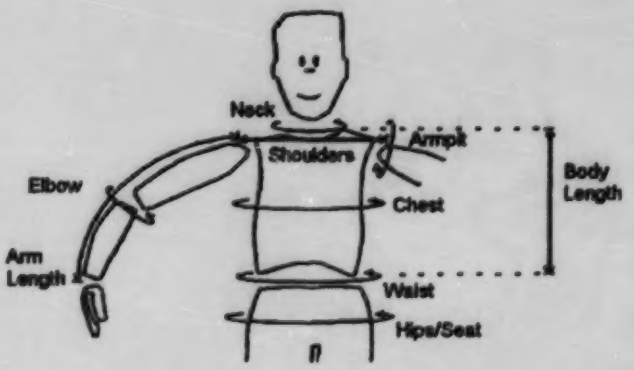
Comfort	☹	😐	☺
Neck	○	○	○
Shoulders	○	○	○
Chest	○	○	○
Armpits	○	○	○
Waist	○	○	○

LCV-3

Load Carriage Vest

Section C: Fit

	too small	OK	too big
Neck	O	O	O
Shoulders	O	O	O
Chest	O	O	O
Waist	O	O	O
Body Length	O	O	O
Armpit	O	O	O
	O	O	O
	O	O	O
	O	O	O
	O	O	O



Section D: Overall Ratings

Appearance	O O O O O	Function	O O O O O	Durability	O O O O O

Section E: Size

Medium	Large
O	O

Section F: Replacement Items

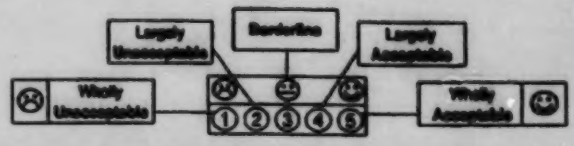
	Yes	No
Are you buying replacement items for this piece of kit?	O	O

Please provide the name brand or description of the replacement item:

Section G: Comments

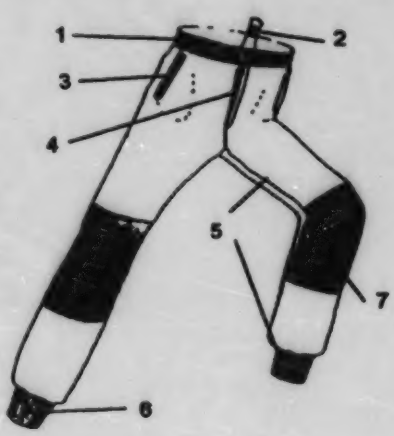
IECS Fleece Pants

I have worn this garment:	
○ Never >>>>>>>>>>	Do not fill out this item
○ Occasionally	Go to Section A and Continue
○ Frequently	



Section A: Specific Features

	Function (works well) ☹ 😐 ☺	Durability (wears well) ☹ 😐 ☺
1. Waist Elastic	○ ○ ○ ○ ○	○ ○ ○ ○ ○
2. Waist Drawstring	○ ○ ○ ○ ○	○ ○ ○ ○ ○
3. Side Pocket	○ ○ ○ ○ ○	○ ○ ○ ○ ○
4. Zipper	○ ○ ○ ○ ○	○ ○ ○ ○ ○
5. Seams	○ ○ ○ ○ ○	○ ○ ○ ○ ○
6. Ankle Elastic	○ ○ ○ ○ ○	○ ○ ○ ○ ○
7. Knee Protectors	○ ○ ○ ○ ○	○ ○ ○ ○ ○
8.	○ ○ ○ ○ ○	○ ○ ○ ○ ○
9.	○ ○ ○ ○ ○	○ ○ ○ ○ ○
10.	○ ○ ○ ○ ○	○ ○ ○ ○ ○



Section B: Whole Item

Activities	☹ 😐 ☺	Suitable for:	☹ 😐 ☺	Compatibility	☹ 😐 ☺
Trunk Bending	○ ○ ○ ○ ○	Cold Weather	○ ○ ○ ○ ○	Trousers cbt	○ ○ ○ ○ ○
Crouching	○ ○ ○ ○ ○	Cool Weather	○ ○ ○ ○ ○	IECS Windpants	○ ○ ○ ○ ○
Sitting	○ ○ ○ ○ ○	Warm Weather	○ ○ ○ ○ ○	Socks, GS	○ ○ ○ ○ ○
Crawling	○ ○ ○ ○ ○	Hot Weather	○ ○ ○ ○ ○	Socks, Wool	○ ○ ○ ○ ○
Climbing	○ ○ ○ ○ ○	Snow	○ ○ ○ ○ ○	Boot Liner	○ ○ ○ ○ ○
Marching	○ ○ ○ ○ ○	Rain	○ ○ ○ ○ ○	Boot cbt	○ ○ ○ ○ ○
Running	○ ○ ○ ○ ○	Wind	○ ○ ○ ○ ○	Drawers, Boxer	○ ○ ○ ○ ○
Digging	○ ○ ○ ○ ○	**Stowage**	☹ 😐 ☺	Drawers, CW	○ ○ ○ ○ ○
Skiing	○ ○ ○ ○ ○	In webbing	○ ○ ○ ○ ○		○ ○ ○ ○ ○
Field Living	○ ○ ○ ○ ○	In vehicles	○ ○ ○ ○ ○		○ ○ ○ ○ ○
Standing	○ ○ ○ ○ ○	Bulk	○ ○ ○ ○ ○		○ ○ ○ ○ ○
Lying Prone	○ ○ ○ ○ ○	Weight	○ ○ ○ ○ ○		○ ○ ○ ○ ○
	○ ○ ○ ○ ○		○ ○ ○ ○ ○		○ ○ ○ ○ ○

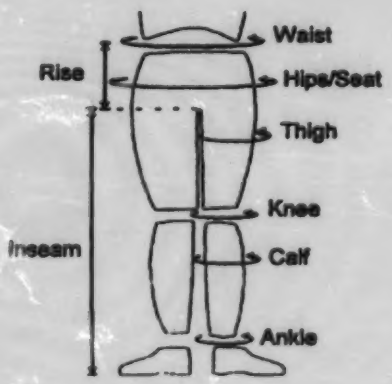
IECS Fleece Pants

Section B: Whole Item (Continued)

Durability	☹	😐	☺	Adjustment	☹	😐	☺	Other:	☹	😐	☺
Tears	○ ○ ○ ○ ○			Put on	○ ○ ○ ○ ○			Colour	○ ○ ○ ○ ○		
Wear	○ ○ ○ ○ ○			Take off	○ ○ ○ ○ ○			Noise	○ ○ ○ ○ ○		
Snagging	○ ○ ○ ○ ○				○ ○ ○ ○ ○			Smell	○ ○ ○ ○ ○		
Stitching	○ ○ ○ ○ ○				○ ○ ○ ○ ○			Layering	○ ○ ○ ○ ○		
Stains	○ ○ ○ ○ ○				○ ○ ○ ○ ○			Shrinkage	○ ○ ○ ○ ○		
Material	○ ○ ○ ○ ○				○ ○ ○ ○ ○				○ ○ ○ ○ ○		
Care	☹	😐	☺	**Vehicles**	☹	😐	☺	**Comfort**	☹	😐	☺
Washing	○ ○ ○ ○ ○			Entry	○ ○ ○ ○ ○			Waist	○ ○ ○ ○ ○		
Drying	○ ○ ○ ○ ○			Exit	○ ○ ○ ○ ○			Crotch	○ ○ ○ ○ ○		
Repairs	○ ○ ○ ○ ○			Operation	○ ○ ○ ○ ○			Thigh	○ ○ ○ ○ ○		
Brushing	○ ○ ○ ○ ○			Maintenance	○ ○ ○ ○ ○			Material	○ ○ ○ ○ ○		
Ironing	○ ○ ○ ○ ○				○ ○ ○ ○ ○			Ankle	○ ○ ○ ○ ○		
	○ ○ ○ ○ ○				○ ○ ○ ○ ○				○ ○ ○ ○ ○		

Section C: Fit

	too small	OK	too big
Waist	○	○	○
Hips/Seat	○	○	○
Rise	○	○	○
Thighs	○	○	○
Knees	○	○	○
Calves	○	○	○
Ankles	○	○	○
Inseam	○	○	○



Section D: Overall Ratings

Appearance	○ ○ ○ ○ ○	Function	○ ○ ○ ○ ○	Durability	○ ○ ○ ○ ○

IECSFP-S

IECS Fleece Pants

Section E: Size Issued

Small	○	Medium	○	Large	○	Extra Large	○

Section F: Replacement Items

	Yes	No
Are you buying replacement items for this piece of kit?	○	○

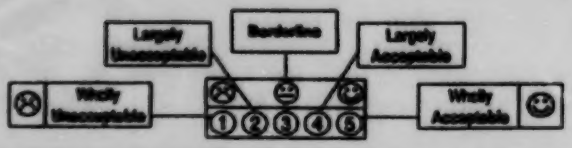
Please provide the name brand or description of the replacement item:

Section G: Comments

IECSTR-1

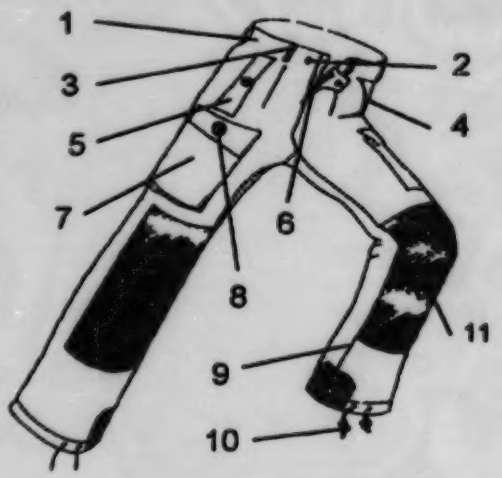
IECS Windpants

I have worn this garment:	
○ Never >>>>>>>>>>	Do not fill out this item
○ Occasionally	Go to Section A and Continue
○ Frequently	



Section A: Specific Features

	Function (works well) ⊗ ☹ 😐 ☺	Durability (wears well) ⊗ ☹ 😐 ☺
1. Side Elastic	○ ○ ○ ○ ○	○ ○ ○ ○ ○
2. Waist Snap	○ ○ ○ ○ ○	○ ○ ○ ○ ○
3. Belt Loops	○ ○ ○ ○ ○	○ ○ ○ ○ ○
4. Side Pocket	○ ○ ○ ○ ○	○ ○ ○ ○ ○
5. Side Pocket Flap	○ ○ ○ ○ ○	○ ○ ○ ○ ○
6. Zipper	○ ○ ○ ○ ○	○ ○ ○ ○ ○
7. Thigh Pockets	○ ○ ○ ○ ○	○ ○ ○ ○ ○
8. Buttons	○ ○ ○ ○ ○	○ ○ ○ ○ ○
9. All Seams	○ ○ ○ ○ ○	○ ○ ○ ○ ○
10. Hem Drawcord	○ ○ ○ ○ ○	○ ○ ○ ○ ○
11. Knee Protectors	○ ○ ○ ○ ○	○ ○ ○ ○ ○



Section B: Whole Item

Activities ⊗ ☹ 😐 ☺		Suitable for: ⊗ ☹ 😐 ☺		Compatibility ⊗ ☹ 😐 ☺	
Trunk Bending	○ ○ ○ ○ ○	Cold Weather	○ ○ ○ ○ ○	Drawers, boxer	○ ○ ○ ○ ○
Crouching	○ ○ ○ ○ ○	Cool Weather	○ ○ ○ ○ ○	Drawers, therm.	○ ○ ○ ○ ○
Sitting	○ ○ ○ ○ ○	Warm Weather	○ ○ ○ ○ ○	Trousers, snow	○ ○ ○ ○ ○
Crawling	○ ○ ○ ○ ○	Hot Weather	○ ○ ○ ○ ○	NBC IPE	○ ○ ○ ○ ○
Climbing	○ ○ ○ ○ ○	Snow	○ ○ ○ ○ ○	Socks, GS	○ ○ ○ ○ ○
Marching	○ ○ ○ ○ ○	Rain	○ ○ ○ ○ ○	Socks, wool	○ ○ ○ ○ ○
Running	○ ○ ○ ○ ○	Wind	○ ○ ○ ○ ○	Boots, cbt	○ ○ ○ ○ ○
Digging	○ ○ ○ ○ ○	**Stowage** ⊗ ☹ 😐 ☺		Jacket, combat	○ ○ ○ ○ ○
Skiing	○ ○ ○ ○ ○	In webbing	○ ○ ○ ○ ○	Parka	○ ○ ○ ○ ○
Field Living	○ ○ ○ ○ ○	In vehicles	○ ○ ○ ○ ○	Shirt, cbt	○ ○ ○ ○ ○
Standing	○ ○ ○ ○ ○	Bulk	○ ○ ○ ○ ○	Fleece Pants	○ ○ ○ ○ ○
Lying Prone	○ ○ ○ ○ ○	Weight	○ ○ ○ ○ ○		○ ○ ○ ○ ○

IECSTR-2

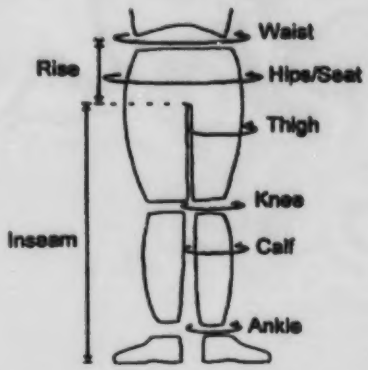
IECS Windpants

Section B: Whole Item (Continued)

Durability	☹	😐	☺	Adjustment	☹	😐	☺	Other:	☹	😐	☺
Tears	○	○	○	Put on	○	○	○	Colour	○	○	○
Wear	○	○	○	Adjust fit	○	○	○	Noise	○	○	○
Snagging	○	○	○	take off	○	○	○	Smell	○	○	○
Stitching	○	○	○		○	○	○	Layering	○	○	○
Stains	○	○	○		○	○	○	Shrinkage	○	○	○
Material	○	○	○		○	○	○		○	○	○
Care . . .	☹	😐	☺	**Vehicles**	☹	😐	☺	**Comfort**	☹	😐	☺
Washing	○	○	○	Entry	○	○	○	Waist	○	○	○
Drying	○	○	○	Exit	○	○	○	Crotch	○	○	○
Repairs	○	○	○	Operation	○	○	○	Thigh	○	○	○
Brushing	○	○	○	Maintenance	○	○	○	Ankle	○	○	○
	○	○	○		○	○	○	Material	○	○	○
	○	○	○		○	○	○		○	○	○

Section C: Fit

	too small	OK	too big.
Waist	○	○	○
Hips/Seat	○	○	○
Rise	○	○	○
Thighs	○	○	○
Knees	○	○	○
Calves	○	○	○
Ankles	○	○	○
Inseam	○	○	○



Section D: Overall Ratings

Appearance	○ ○ ○ ○ ○	Function	○ ○ ○ ○ ○	Durability	○ ○ ○ ○ ○

IECSTR-3

IECS Windpants

Section E: Size Issued

Small			Medium			Large			Extra Large	
Short	Reg.	Long	Short	Reg.	Long	Short	Reg.	Long	Reg.	Long
O	O	O	O	O	O	O	O	O	O	O

Section F: Replacement Items

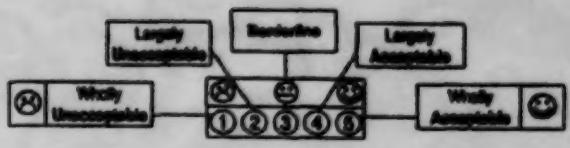
	Yes	No
Are you buying replacement items for this piece of kit?	O	O

Please provide the name brand or description of the replacement item:

Section G: Comments

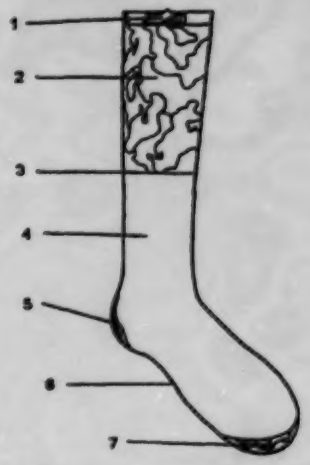
Socks, MVP

I have worn this garment:	
○ Never >>>>>>>>>>	Do not fill out this item
○ Occasionally	Go to Section A and Continue
○ Frequently	



Section A: Specific Features

	Function (works well) ☹ 😐 ☺	Durability (wears well) ☹ 😐 ☺
1. Velcro Tab	○ ○ ○ ○ ○	○ ○ ○ ○ ○
2. Upper	○ ○ ○ ○ ○	○ ○ ○ ○ ○
3. Seams	○ ○ ○ ○ ○	○ ○ ○ ○ ○
4. Lower	○ ○ ○ ○ ○	○ ○ ○ ○ ○
5. Heel	○ ○ ○ ○ ○	○ ○ ○ ○ ○
6. Sole	○ ○ ○ ○ ○	○ ○ ○ ○ ○
7. Toe	○ ○ ○ ○ ○	○ ○ ○ ○ ○
8.	○ ○ ○ ○ ○	○ ○ ○ ○ ○
9.	○ ○ ○ ○ ○	○ ○ ○ ○ ○
10.	○ ○ ○ ○ ○	○ ○ ○ ○ ○



Section B: Whole Item

Activities ☹ 😐 ☺	Suitable for: ☹ 😐 ☺	Compatibility: ☹ 😐 ☺
Crawling ○ ○ ○ ○ ○	Cold weather ○ ○ ○ ○ ○	Trousers, cbt ○ ○ ○ ○ ○
Climbing ○ ○ ○ ○ ○	Cool weather ○ ○ ○ ○ ○	Socks, wool ○ ○ ○ ○ ○
Walking ○ ○ ○ ○ ○	Warm weather ○ ○ ○ ○ ○	Socks GS ○ ○ ○ ○ ○
Running ○ ○ ○ ○ ○	Hot weather ○ ○ ○ ○ ○	Overboots ○ ○ ○ ○ ○
Digging ○ ○ ○ ○ ○	Snow ○ ○ ○ ○ ○	Drawers CW ○ ○ ○ ○ ○
Marching ○ ○ ○ ○ ○	Rain ○ ○ ○ ○ ○	NBC IPE ○ ○ ○ ○ ○
Field Living ○ ○ ○ ○ ○	Wind ○ ○ ○ ○ ○	NBC Overboots ○ ○ ○ ○ ○
Standing ○ ○ ○ ○ ○	Mud/Slush ○ ○ ○ ○ ○	Combat Boots ○ ○ ○ ○ ○
Lying Prone ○ ○ ○ ○ ○	○ ○ ○ ○ ○	IECS Windpants ○ ○ ○ ○ ○
○ ○ ○ ○ ○	**Vehicles** ☹ 😐 ☺	○ ○ ○ ○ ○
○ ○ ○ ○ ○	Entry/Exit ○ ○ ○ ○ ○	○ ○ ○ ○ ○
○ ○ ○ ○ ○	Operation ○ ○ ○ ○ ○	○ ○ ○ ○ ○
○ ○ ○ ○ ○	Maintenance ○ ○ ○ ○ ○	○ ○ ○ ○ ○

SKMVP - 2

Socks, MVP

Section B: Whole Item (Continued)

Durability	☹	😐	☺
Tears	○	○	○
Wear	○	○	○
Snagging	○	○	○
Stitching	○	○	○
Stains	○	○	○
	○	○	○
	○	○	○

Cleaning	☹	😐	☺
Washing	○	○	○
Drying	○	○	○
Repairs	○	○	○
	○	○	○
	○	○	○

Adjustment	☹	😐	☺
Put on	○	○	○
Adjust fit	○	○	○
Take off	○	○	○
	○	○	○
	○	○	○

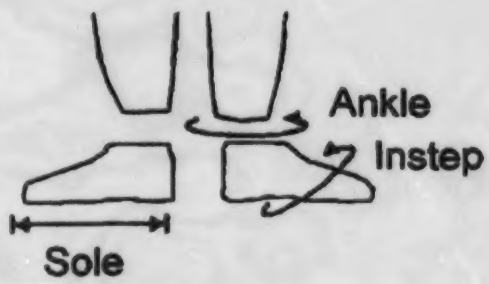
Stowage	☹	😐	☺
In webbing	○	○	○
Bulk	○	○	○
Weight	○	○	○
	○	○	○
	○	○	○
	○	○	○

Other:	☹	😐	☺
Colour	○	○	○
Noise	○	○	○
Smell	○	○	○
	○	○	○
	○	○	○
	○	○	○

Comfort	☹	😐	☺
Flex	○	○	○
Sole Feeling	○	○	○
Cushioning	○	○	○
Breaking In	○	○	○
	○	○	○
	○	○	○

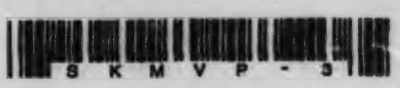
Section C: Fit

	too small	OK	too big
Calf	○	○	○
Ankle	○	○	○
Heel	○	○	○
Instep	○	○	○
Toes	○	○	○
Width	○	○	○
Sole length	○	○	○
Sock height	○	○	○



Section D: Overall Ratings

Appearance	○ ○ ○ ○ ○	Function	○ ○ ○ ○ ○	Durability	○ ○ ○ ○ ○



Socks, MVP

Section E: Size Issued

2	3	4	5	6	7	8	9	10	11	12
○	○	○	○	○	○	○	○	○	○	○

13	14
○	○

Section F: Replacement Items

	Yes	No
Are you buying replacement items for this piece of kit?	○	○

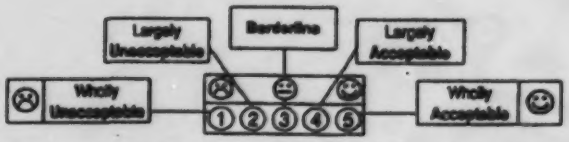
Please provide the name brand or description of the replacement item:

Section G: Comments

SKGR - 1

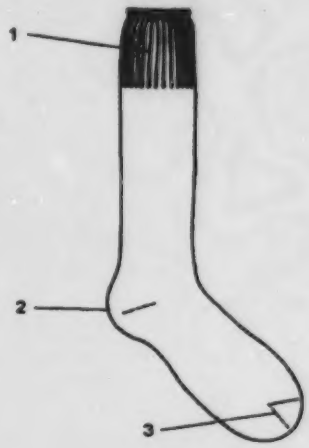
Gray Socks

I have worn this garment:	
○ Never >>>>>>>>>>	Do not fill out this item
○ Occasionally	Go to Section A and Continue
○ Frequently	



Section A: Specific Features

	Function (works well)					Durability (wears well)				
	☹	😐			☺	☹	😐			☺
1. Rib Top	○	○	○	○	○	○	○	○	○	○
2. Heel	○	○	○	○	○	○	○	○	○	○
3. Toe Seam	○	○	○	○	○	○	○	○	○	○
4.	○	○	○	○	○	○	○	○	○	○
5.	○	○	○	○	○	○	○	○	○	○
6.	○	○	○	○	○	○	○	○	○	○
7.	○	○	○	○	○	○	○	○	○	○
8.	○	○	○	○	○	○	○	○	○	○
9.	○	○	○	○	○	○	○	○	○	○
10.	○	○	○	○	○	○	○	○	○	○



Section B: Whole Item

Activities:	☹		😐		☺
Crawling	○	○	○	○	○
Climbing	○	○	○	○	○
Walking	○	○	○	○	○
Running	○	○	○	○	○
Digging	○	○	○	○	○
Marching	○	○	○	○	○
Field Living	○	○	○	○	○
Standing	○	○	○	○	○
Lying Prone	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○

Suitable for:	☹		😐		☺
Cold weather	○	○	○	○	○
Cool weather	○	○	○	○	○
Warm weather	○	○	○	○	○
Hot weather	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○
Vehicles	☹		😐		☺
Entry/Exit	○	○	○	○	○
Operation	○	○	○	○	○
Maintenance	○	○	○	○	○

Compatibility	☹		😐		☺
Trousers, cbt	○	○	○	○	○
Boot Liner	○	○	○	○	○
Overboots	○	○	○	○	○
Drawers CW	○	○	○	○	○
NBC IPE	○	○	○	○	○
NBC Overboots	○	○	○	○	○
Combat boot	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○

SKGR - 2

Gray Socks

Section B: Whole Item (Continued)

Durability	☹	😐	☺
Tears	○ ○	○ ○	○
Wear	○ ○	○ ○	○
Snagging	○ ○	○ ○	○
Stitching	○ ○	○ ○	○
Stains	○ ○	○ ○	○
	○ ○	○ ○	○
	○ ○	○ ○	○

Care	☹	😐	☺
Washing	○ ○	○ ○	○
Drying	○ ○	○ ○	○
Repairs	○ ○	○ ○	○
	○ ○	○ ○	○
	○ ○	○ ○	○

Adjustment	☹	😐	☺
Put on	○ ○	○ ○	○
Adjust fit	○ ○	○ ○	○
Take off	○ ○	○ ○	○
	○ ○	○ ○	○
	○ ○	○ ○	○

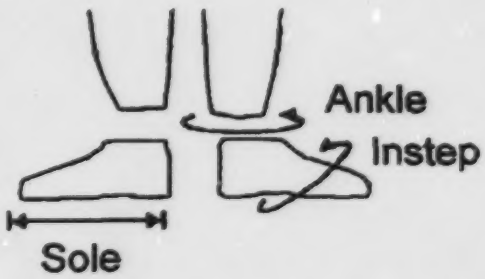
Stowage	☹	😐	☺
In webbing	○ ○	○ ○	○
In vehicles	○ ○	○ ○	○
Bulk	○ ○	○ ○	○
Weight	○ ○	○ ○	○
	○ ○	○ ○	○
	○ ○	○ ○	○
	○ ○	○ ○	○

Other:	☹	😐	☺
Colour	○ ○	○ ○	○
Noise	○ ○	○ ○	○
Smell	○ ○	○ ○	○
	○ ○	○ ○	○
	○ ○	○ ○	○
	○ ○	○ ○	○

Comfort	☹	😐	☺
Flex	○ ○	○ ○	○
Sole Feeling	○ ○	○ ○	○
Cushioning	○ ○	○ ○	○
	○ ○	○ ○	○
	○ ○	○ ○	○
	○ ○	○ ○	○

Section C: Fit

	too small	OK	too big
Calf	○	○	○
Ankle	○	○	○
Heel	○	○	○
Instep	○	○	○
Toes	○	○	○
Width	○	○	○
Sole length	○	○	○
Sock height	○	○	○



Section D: Overall Ratings

Appearance	○ ○ ○ ○ ○	Function	○ ○ ○ ○ ○	Durability	○ ○ ○ ○ ○

SKGR - 3

Gray Socks

Section E: Size Issued

4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5
O	O	O	O	O	O	O	O	O	O	O
10	**10.5**	**11**	**11.5**	**12**	**12.5**	**13**	**13.5**	**14**	**14.5**	
O	O	O	O	O	O	O	O	O	O	

Section F: Replacement Items

	Yes	No
Are you buying replacement items for this piece of kit?	O	O

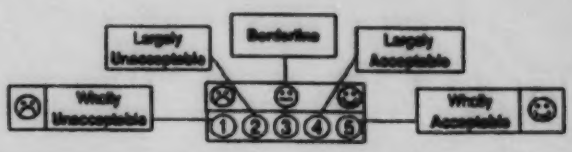
Please provide the name brand or description of the replacement item:

Section G: Comments

BOOT - 1

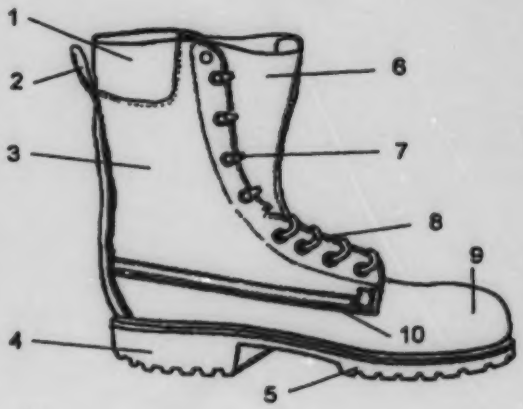
Cold Wet Weather Boot

I have worn this item:	
○ Never >>>>>>>>>>	Do not fill out this item
○ Occasionally	Go to Section A and Continue
○ Frequently	



Section A: Specific Features

	Function (works well) ☹ 😐 ☺	Durability (wears well) ☹ 😐 ☺
1. Calf Padding	○ ○ ○ ○ ○	○ ○ ○ ○ ○
2. Pull Assist	○ ○ ○ ○ ○	○ ○ ○ ○ ○
3. Upper	○ ○ ○ ○ ○	○ ○ ○ ○ ○
4. Heel	○ ○ ○ ○ ○	○ ○ ○ ○ ○
5. Sole	○ ○ ○ ○ ○	○ ○ ○ ○ ○
6. Tongue	○ ○ ○ ○ ○	○ ○ ○ ○ ○
7. Eyelet lace system	○ ○ ○ ○ ○	○ ○ ○ ○ ○
8. Laces	○ ○ ○ ○ ○	○ ○ ○ ○ ○
9. Toe Cap	○ ○ ○ ○ ○	○ ○ ○ ○ ○
10. Seams	○ ○ ○ ○ ○	○ ○ ○ ○ ○



Section B: Whole Item

Activities ☹ 😐 ☺	Suitable for: ☹ 😐 ☺	Compatibility ☹ 😐 ☺
Crawling ○ ○ ○ ○ ○	Cold weather ○ ○ ○ ○ ○	Trousers, cbt ○ ○ ○ ○ ○
Climbing ○ ○ ○ ○ ○	Cool weather ○ ○ ○ ○ ○	Socks, wool ○ ○ ○ ○ ○
Walking ○ ○ ○ ○ ○	Warm weather ○ ○ ○ ○ ○	Socks GS ○ ○ ○ ○ ○
Running ○ ○ ○ ○ ○	Hot weather ○ ○ ○ ○ ○	Boot Liner ○ ○ ○ ○ ○
Digging ○ ○ ○ ○ ○	Snow ○ ○ ○ ○ ○	Overboots ○ ○ ○ ○ ○
Marching ○ ○ ○ ○ ○	Rain ○ ○ ○ ○ ○	Drawers CW ○ ○ ○ ○ ○
Field Living ○ ○ ○ ○ ○	Ice ○ ○ ○ ○ ○	NBC IPE ○ ○ ○ ○ ○
Standing ○ ○ ○ ○ ○	Sand ○ ○ ○ ○ ○	NBC Overboots ○ ○ ○ ○ ○
Lying Prone ○ ○ ○ ○ ○	Mud/Slush ○ ○ ○ ○ ○	IECS Windpants ○ ○ ○ ○ ○
Traction Wet ○ ○ ○ ○ ○	**Vehicles** ☹ 😐 ☺	Snowshoes ○ ○ ○ ○ ○
Traction Dry ○ ○ ○ ○ ○	Entry/Exit ○ ○ ○ ○ ○	Skis ○ ○ ○ ○ ○
○ ○ ○ ○ ○	Operation ○ ○ ○ ○ ○	○ ○ ○ ○ ○
○ ○ ○ ○ ○	Maintenance ○ ○ ○ ○ ○	○ ○ ○ ○ ○

BOOT - 2

Cold Wet Weather Boot

Section B: Whole Item (Continued)

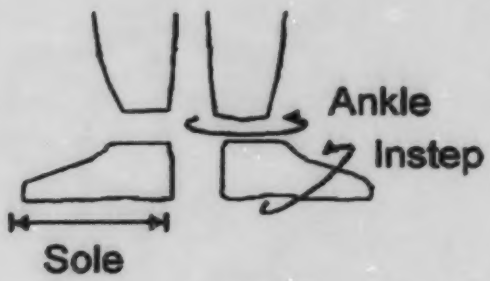
Durability	☹	😐	☺
Tears	○ ○ ○ ○ ○		
Wear	○ ○ ○ ○ ○		
Snagging	○ ○ ○ ○ ○		
Stitching	○ ○ ○ ○ ○		
Stains	○ ○ ○ ○ ○		
Leather	○ ○ ○ ○ ○		
Shine	○ ○ ○ ○ ○		
Care	☹	😐	☺
Washing	○ ○ ○ ○ ○		
Drying	○ ○ ○ ○ ○		
Repairs	○ ○ ○ ○ ○		
Brushing	○ ○ ○ ○ ○		
	○ ○ ○ ○ ○		

Adjustment	☹	😐	☺
Put on	○ ○ ○ ○ ○		
Adjust fit	○ ○ ○ ○ ○		
Take off	○ ○ ○ ○ ○		
	○ ○ ○ ○ ○		
	○ ○ ○ ○ ○		
Stowage	☹	😐	☺
In webbing	○ ○ ○ ○ ○		
In vehicles	○ ○ ○ ○ ○		
Bulk	○ ○ ○ ○ ○		
Weight	○ ○ ○ ○ ○		
	○ ○ ○ ○ ○		
	○ ○ ○ ○ ○		
	○ ○ ○ ○ ○		

Other:	☹	😐	☺
Colour	○ ○ ○ ○ ○		
Noise	○ ○ ○ ○ ○		
Smell	○ ○ ○ ○ ○		
	○ ○ ○ ○ ○		
	○ ○ ○ ○ ○		
	○ ○ ○ ○ ○		
Comfort	☹	😐	☺
Flex	○ ○ ○ ○ ○		
Sole Feeling	○ ○ ○ ○ ○		
Cushioning	○ ○ ○ ○ ○		
Breaking In	○ ○ ○ ○ ○		
Warm	○ ○ ○ ○ ○		
Dry	○ ○ ○ ○ ○		

Section C: Fit

	too small	OK	too big
Calf	○	○	○
Ankle	○	○	○
Heel	○	○	○
Instep	○	○	○
Toes	○	○	○
Width	○	○	○
Sole length	○	○	○
Boot height	○	○	○



Section D: Overall Ratings

Appearance	○ ○ ○ ○ ○	Function	○ ○ ○ ○ ○	Durability	○ ○ ○ ○ ○

BOOT - 3

Cold Wet Weather Boot

Section E: Size Issued

4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5
○	○	○	○	○	○	○	○	○	○	○
10	**10.5**	**11**	**11.5**	**12**	**12.5**	**13**	**13.5**	**14**	**14.5**	
○	○	○	○	○	○	○	○	○	○	

Section F: Replacement Items

	Yes	No
Are you buying replacement items for this piece of kit?	○	○
Please provide the name brand or description of the replacement item:		

Section G: Comments

ANNEX B

ACCESS EVALUATION QUESTIONNAIRE

QEVAL-1

PERSONAL DATA	Clearly print your Name, MOC, Service Number, and Unit in the boxes provided.		
NAME		MOC	
SERVICE NUMBER		UNIT	
Did you receive a detailed questionnaire briefing?	Yes ☐	No ☐	

1. Rating Scale: Describe the meaning of each point in the rating scale below using your own words.

☺	5	Wholly Acceptable	_____
	4	Largely Acceptable	_____
😐	3	Borderline	_____
	2	Largely Unacceptable	_____
☹	1	Wholly Unacceptable	_____

2. Frequency of Use: Indicate the frequency of use that you feel best describes the following terms.

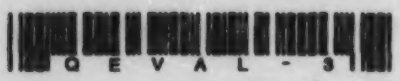
	None	Hourly	Daily	Weekly	Monthly	Yearly
Never	☐	☐	☐	☐	☐	☐
Occassionally	☐	☐	☐	☐	☐	☐
Frequently	☐	☐	☐	☐	☐	☐

QEVAL-2

3. Questionnaire Sections: Rate the questionnaire sections, indicated in the attached sample questionnaire (A, B, C, ... etc), by agreeing or disagreeing with the statement below. Describe what you think is the purpose of each section in your own words. Write any comments directly on the sample pages provided.

I fully understand the purpose of each of the following sections of the questionnaire.

SECTION	Strongly Disagree ☹ 1	2	Borderline 😐 3	4	Strongly Agree ☺ 5	Describe the purpose of each section in your own words.
A: Feature Function	☐	☐	☐	☐	☐	
B: Feature Durability	☐	☐	☐	☐	☐	
C: Activities	☐	☐	☐	☐	☐	
D: Climate	☐	☐	☐	☐	☐	
E: Stowage	☐	☐	☐	☐	☐	
F: Compatibility	☐	☐	☐	☐	☐	
G: Whole Item Durability	☐	☐	☐	☐	☐	
H: Care	☐	☐	☐	☐	☐	



SECTION (CONTINUED)	Strongly Disagree ☹ 1	2	Borderline 😐 3	4	Strongly Agree ☺ 5	Describe the purpose of each section in your own words.
I: Adjustment	☐	☐	☐	☐	☐	
J: Vehicles	☐	☐	☐	☐	☐	
K: Other	☐	☐	☐	☐	☐	
L: Fit	☐	☐	☐	☐	☐	
M: Overall	☐	☐	☐	☐	☐	
N: Size Issued	☐	☐	☐	☐	☐	
O: Replacements	☐	☐	☐	☐	☐	
P: Comments	☐	☐	☐	☐	☐	

QEVAL-4

4. Terminology: Rate the following questionnaire terms, by agreeing or disagreeing with the statement below. In your own words, provide a definition for each term. Write any additional comments directly on the sample pages provided.

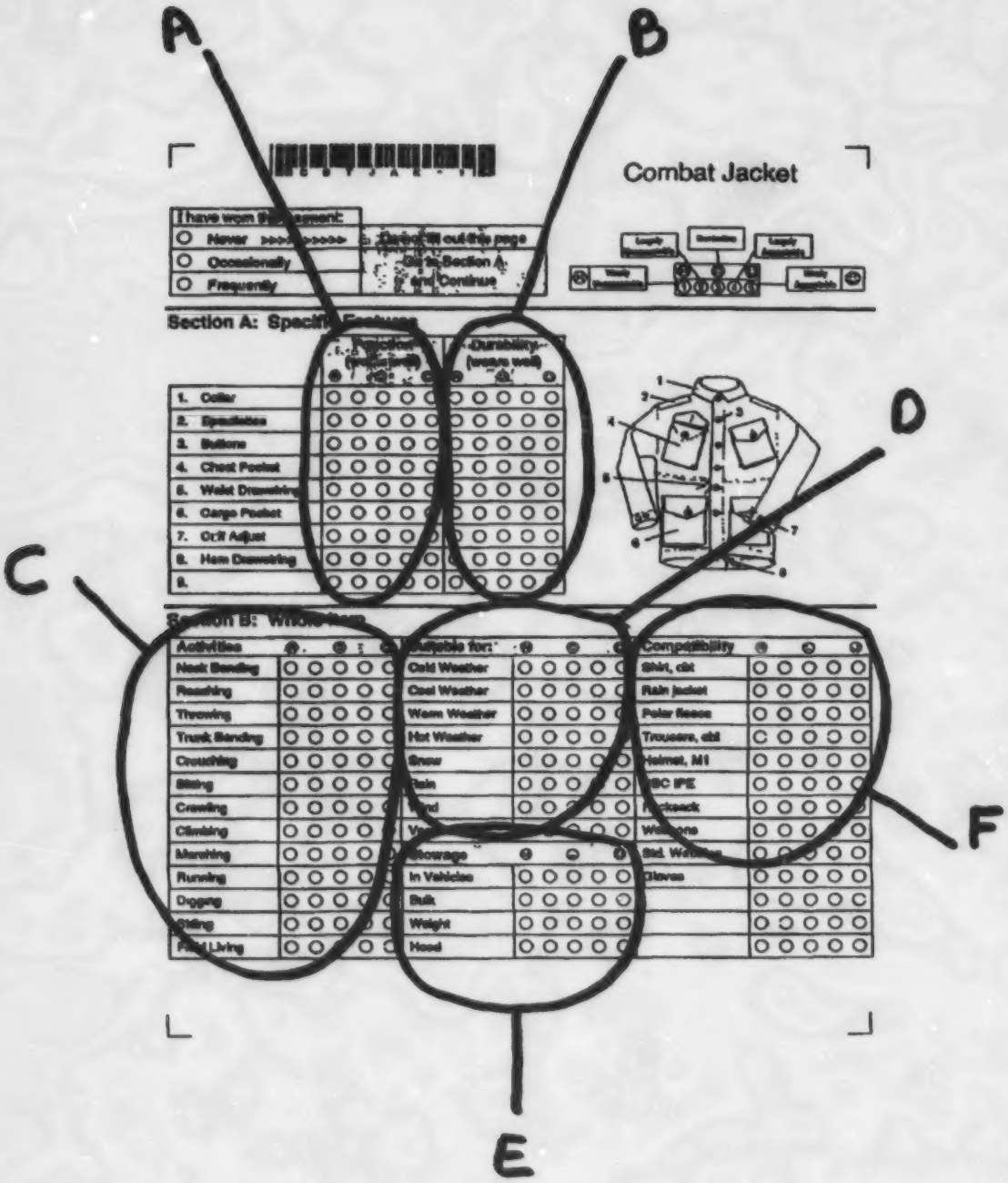
I fully understand the meaning of each of the following terms in the questionnaire.

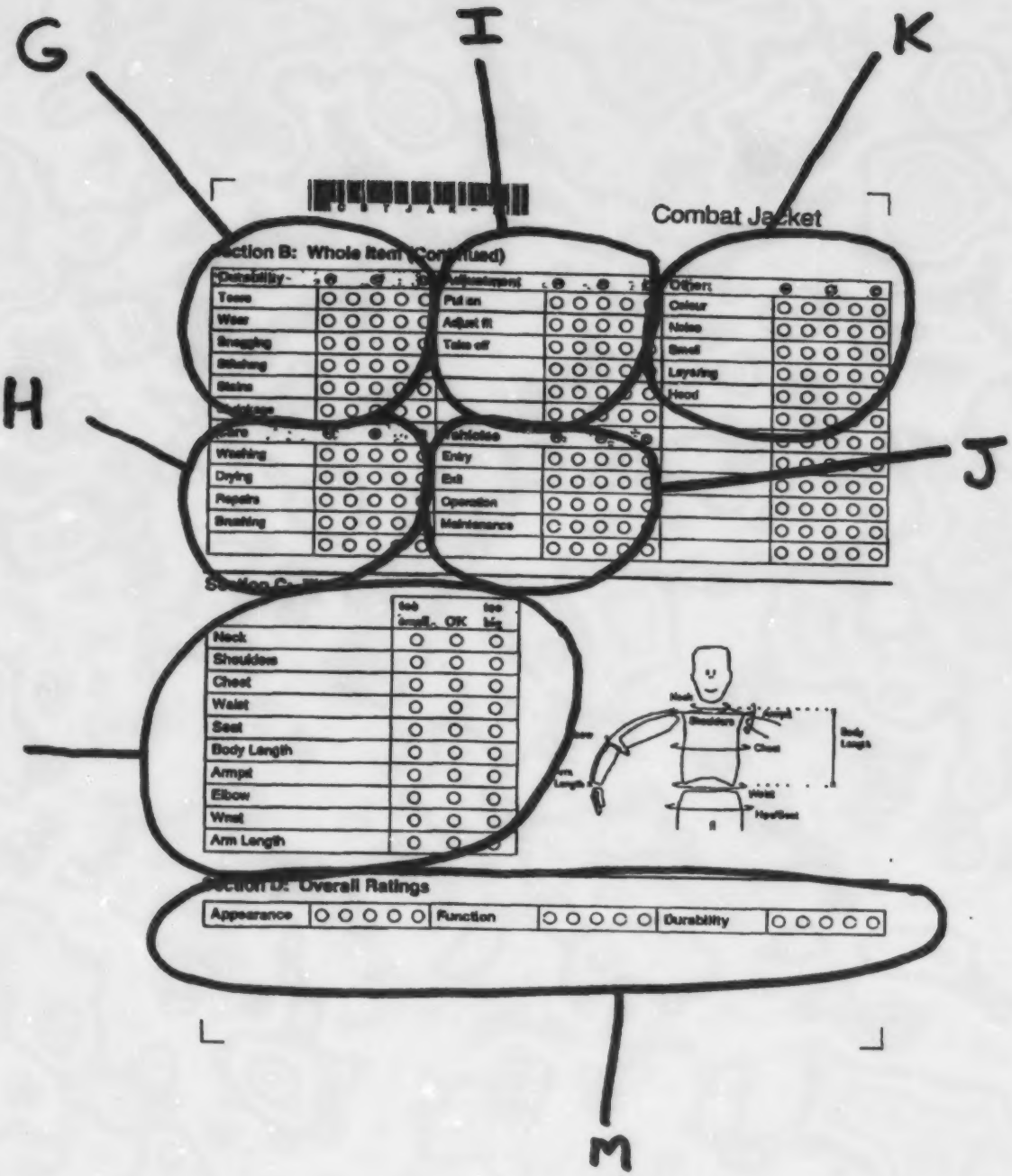
SECTION	Strongly Disagree ☹ 1	2	Borderline 😐 3	4	Strongly Agree ☺ 5	Provide a definition of each term in your own words.
Compatibility	☐	☐	☐	☐	☐	
Dexterity	☐	☐	☐	☐	☐	
Durability	☐	☐	☐	☐	☐	
Layering	☐	☐	☐	☐	☐	
Stability	☐	☐	☐	☐	☐	
Stowage	☐	☐	☐	☐	☐	
Traction	☐	☐	☐	☐	☐	
Ventilation	☐	☐	☐	☐	☐	

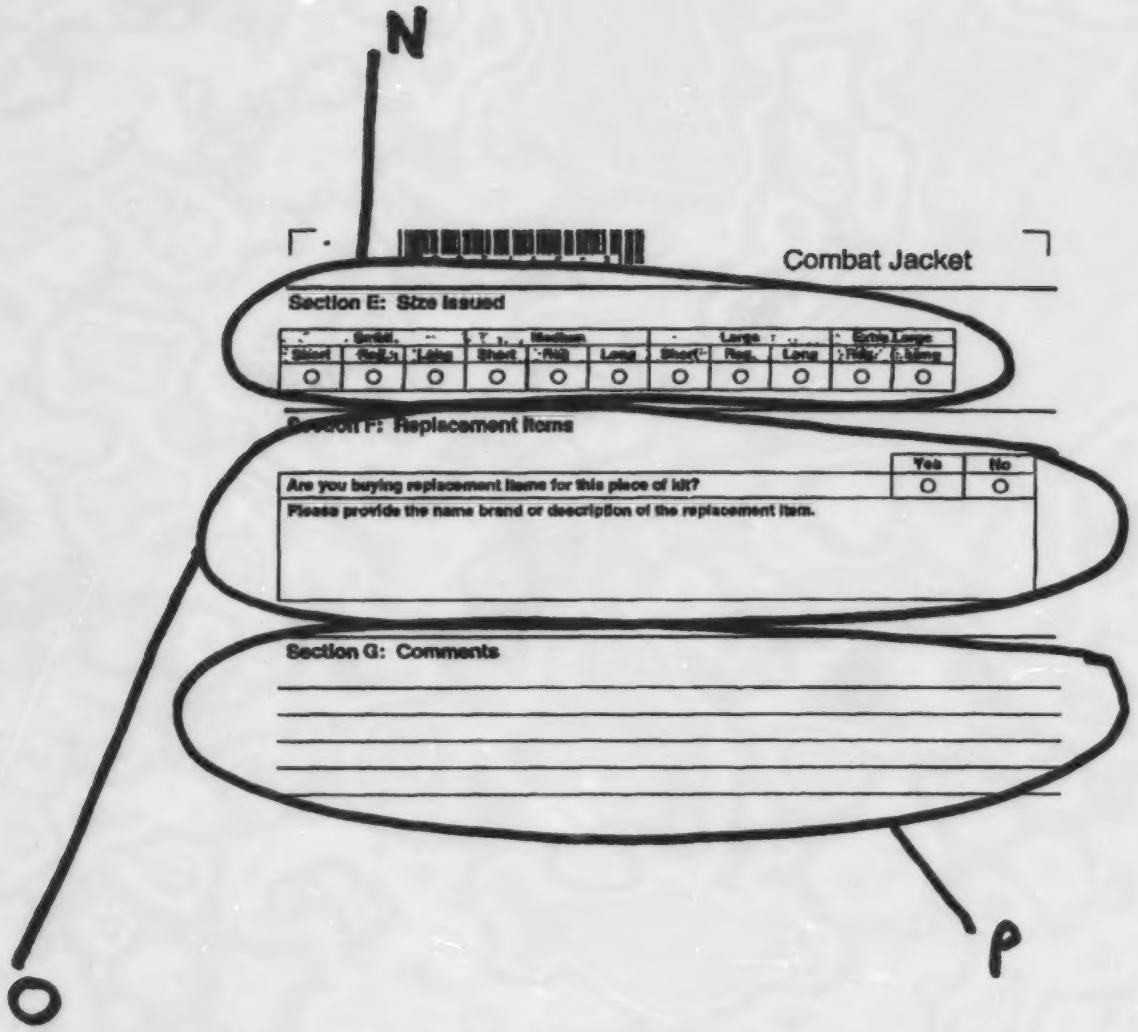
QEVAL-5

5. Overall: Rate your overall impressions of the questionnaire, by agreeing or disagreeing with the statements below.

	Strongly Disagree		Borderline		Strongly Agree
	☹		😐		☺
	1	2	3	4	5
1. I found the questionnaire easy to understand.	☐	☐	☐	☐	☐
2. The questionnaire was easy to complete.	☐	☐	☐	☐	☐
3. I was able to indicate all my concerns with this questionnaire alone.	☐	☐	☐	☐	☐
4. The rating scale was easy to use.	☐	☐	☐	☐	☐
5. I am confident that I know my height.	☐	☐	☐	☐	☐
6. I am confident that I know my weight.	☐	☐	☐	☐	☐
7. I am confident that I know my chest size.	☐	☐	☐	☐	☐
8. I am confident that I know my waist size.	☐	☐	☐	☐	☐
9. I am confident that I know my boot size.	☐	☐	☐	☐	☐
10. I am confident that I know my cap size.	☐	☐	☐	☐	☐
11. I had sufficient space to write all my comments.	☐	☐	☐	☐	☐
12. The drawings of each item clearly indicated all important features.	☐	☐	☐	☐	☐
13. I fully understood all of the terms used in the questionnaire.	☐	☐	☐	☐	☐
14. I believe a thorough briefing is required with this questionnaire.	☐	☐	☐	☐	☐
15. I know the sizes of all items of my kit.	☐	☐	☐	☐	☐
16. The questionnaire instructions were clear.	☐	☐	☐	☐	☐
17. I am familiar with the current UCR system.	☐	☐	☐	☐	☐
18. I am satisfied with only providing my comments using the UCR system.	☐	☐	☐	☐	☐
19. I had sufficient time to complete the questionnaire.	☐	☐	☐	☐	☐
20. I want an annual soldier feedback questionnaire for clothing and equip.	☐	☐	☐	☐	☐


A
B
C
D
E
F
Combat Jacket
Section A:
Durability
(wears well)
Activities
Suitable for:
Compatibility
Coverage
In Vehicles
Bulk
Weight
Head
Shirt, cbt
Rain jacket
Polar fleece
Trousers, cbt
Helmet, M1
IBC IPE
Rucksack
Gloves


G
I
K
Combat Jacket
Section B: Whole Item (Continued)
Durability
Tears
Wear
Snagging
Stitching
Seams
Adjustment
Put on
Adjust fit
Take off
Odour
Noise
Smell
Layering
Hood
H
Care
Washing
Drying
Repairs
Brushing
Vehicles
Entry
Exit
Operation
Maintenance
J
L
too small
OK
too big
Neck
Shoulders
Chest
Waist
Seat
Body Length
Armpit
Elbow
Wrist
Arm Length
Section D: Overall Ratings
Appearance
Function
Durability
M


N
Combat Jacket
Section E: Size Issued
Small
Short
Reg.
Long
Medium
Short
Reg.
Long
Large
Short
Reg.
Long
Extra Large
Reg.
Long
Section F: Replacement Items
Yes
No
Are you buying replacement items for this piece of kit?
Please provide the name brand or description of the replacement item.
Section G: Comments
O
P

ANNEX C

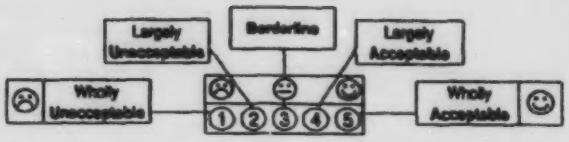
ACCESS RESULTS

Descriptive Statistics

HAT - 1

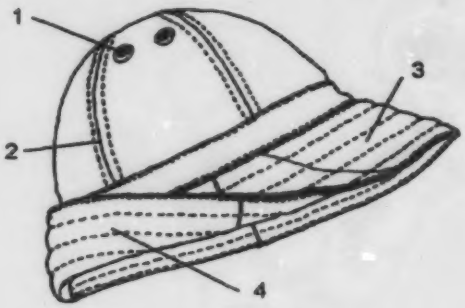
Combat Cap

I have worn this item			
	n	%	
Never	0	0.0	Do not fill out this item. Go to Section A and Continue.
Occasionally	5	8.6	
Frequently	53	91.4	



Section A: Specific Features

	Satisfaction			Suitability		
	x	s.d.	n	x	s.d.	n
1. Ventilation Holes	1.97	1.00	58	3.11	1.10	55
2. All Seams	3.04	1.00	57	3.37	1.07	54
3. Peak	1.75	0.99	57	2.80	1.33	55
4. Brim	1.86	0.99	57	2.97	1.31	55
5.						
6.						
7.						
8.						
9.						



Section B: Whole Item

Activities	x	s.d.	n	Satisfaction	x	s.d.	n	Compatibility	x	s.d.	n
Neck Bending	3.16	1.39	55	Cool Weather	1.23	0.68	57	Shirt, cbt	3.48	0.91	56
Reaching	3.45	1.32	51	Warm Weather	2.59	1.17	58	Rain jacket	3.07	1.12	57
Throwing	3.08	1.45	51	Hot Weather	1.88	0.95	57	IECS Jacket	2.52	1.61	25
Trunk Bending	2.51	1.36	55	Rain	2.13	1.22	55	Combat Jacket	3.18	1.12	57
Crouching	3.30	1.30	53	Wind	1.56	0.89	57	Rucksack	3.04	1.23	54
Sitting	3.75	1.33	52	Ventilation	1.72	0.96	57	Weapons	2.91	1.28	53
Crawling	2.57	1.34	53					Hoods	2.29	1.09	56
Climbing	2.24	1.30	54					Gloves	3.29	1.11	52
Marching	2.91	1.39	54	**Stowage:**	**x**	**s.d.**	**n**				
Running	2.05	1.29	56	In Webbing	3.52	1.22	58				
Digging	2.44	1.24	54	Bulk	3.31	1.19	58				
Field Living	2.53	1.40	57	Weight	3.25	1.24	57				

HAT - 2

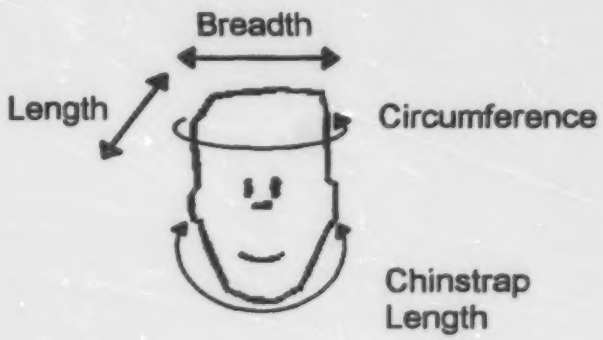
Combat Cap

Section B: Whole Item (Continued)

Durability	x	s.d.	n	Adjustment	x	s.d.	n	Other	x	s.d.	n
Tears	3.67	0.98	55	Put on	2.72	1.18	57	Colour	3.60	0.98	57
Wear	3.29	1.07	56	Take off	3.33	1.32	55	Noise	3.66	0.94	56
Snagging	3.00	1.26	55					Smell	3.55	0.99	53
Stitching	3.60	0.99	55					Layering	2.29	1.05	51
Stains	3.14	1.06	57					Stability	2.30	1.25	53
Care	x	s.d.	n	Wear Ease	x	s.d.	n	Comfort	x	s.d.	n
Washing	3.76	0.92	58	Entry	2.74	1.15	54	Overall	2.04	1.07	57
Drying	2.75	1.27	57	Exit	2.75	1.18	51				
Repairs	2.57	1.21	54	Operation	2.65	1.16	51				
				Maintenance	2.70	1.32	47				

Section C: Fit

	x	s.d.	n
Head Breadth	1.67	0.71	58
Head Length	1.91	0.74	57
Head Circumference	1.68	0.66	56



Section D: Overall Ratings

	x	s.d.	n		x	s.d.	n		x	s.d.	n
Appearance	1.83	1.05	58	Function	1.81	0.89	58	Durability	3.36	1.06	58

HAT - 3

Combat Cap

Section E: Size Issued

Section F: Replacement Items

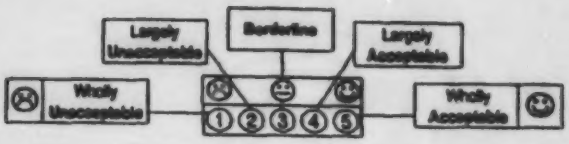
	Yes		No	
	n	%	n	%
Are you buying replacement items for this piece of kit?	19	33.6	38	66.4
Please provide the name brand or description of the replacement item:				

Section G: Comments

IECSFT-1

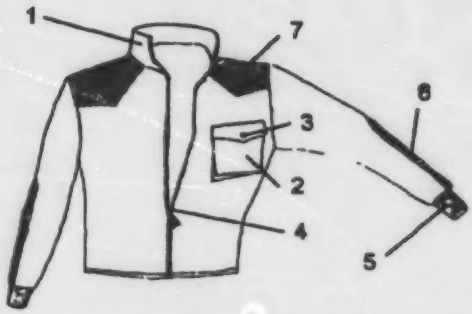
IECS Fleece Top

I have worn this garment			
	n	%	
Never	0	0.0	Do not fill out this item.
Occasionally	5	83.3	Go to Section A
Frequently	1	16.6	and continue.



Section A: Specific Features

	Function (Worn well)			Durability (Worn well)		
	x̄	s.d.	n	x̄	s.d.	n
1. Collar Elastic	3.67	0.52	6	3.50	0.84	6
2. Chest Pocket	6.40	0.89	5	3.40	0.55	5
3. Chest Pocket Snap	3.40	0.55	5	3.00	1.00	5
4. Zipper	3.60	0.89	5	3.00	1.27	6
5. Wrist Elastic	2.67	1.03	6	3.00	0.71	5
6. Forearm Protector	4.00	1.73	5	4.00	1.73	5
7. Shoulder Protector	3.80	1.79	5	4.17	1.17	6
8						
9.						



Section B: Whole Item

Activities	x̄	s.d.	n	Suitable for	x̄	s.d.	n	Compatibility	x̄	s.d.	n
Neck Bending	3.40	0.89	5	Cold Weather	4.17	0.98	6	Shirt, cbt	2.80	1.30	5
Reaching	3.00	1.23	5	Cool Weather	4.00	0.89	6	Rain jacket	3.67	1.03	6
Throwing	3.40	1.52	5	Warm Weather	1.80	1.10	5	Fleece pants	3.80	1.30	5
Trunk Bending	3.67	1.03	6	Hot Weather	1.67	0.82	6	Trousers, cbt	3.40	0.89	5
Crouching	3.60	0.55	5	Snow	4.00	0.71	5	Helmet, M1	3.20	1.48	5
Sitting	3.00	1.55	6	Rain	3.17	1.72	6	NBC IPE	3.00	1.58	5
Crawling	3.00	1.27	6	Wind	3.50	1.64	6	Rucksack	3.40	1.14	5
Climbing	3.33	0.82	6	Ventilation	2.83	0.75	6	Weapons	3.80	0.84	5
Marching	3.60	0.55	5	Stowage	x̄	s.d.	n	Std. Webbing	3.80	0.84	5
Running	3.17	1.17	6	In Vehicles	3.60	0.55	5	Gloves	3.40	1.14	5
Digging	3.50	0.84	6	Bulk	3.40	0.55	5	IECS Jacket	4.00	0.82	4
Skiing	3.67	0.58	3	Weight	3.50	0.55	6	Undershirt	3.40	1.14	5
Field Living	3.50	0.84	6					IECS Parka	3.50	1.29	4

IECSFT-2

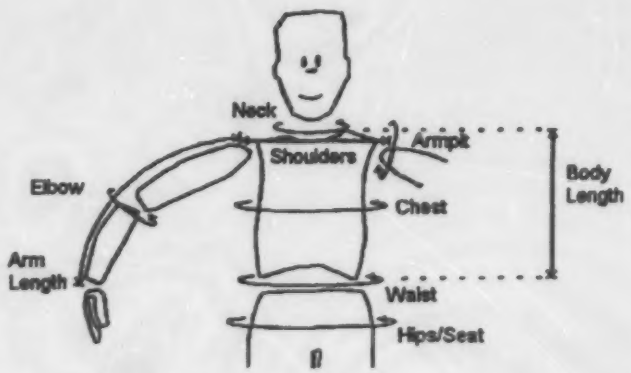
IECS Fleece Top

Section B: Whole Item (Continued)

Durability	x	s.d.	n	Adjustment	x	s.d.	n	Other:	x	s.d.	n
Tears	3.60	0.55	5	Put on	3.83	0.41	6	Colour	3.83	0.75	6
Wear	3.60	0.55	5	Adjust fit	3.40	0.89	5	Noise	4.17	0.41	6
Snagging	3.60	0.55	5	Take off	3.60	0.55	5	Smell	4.17	0.41	6
Stitching	3.67	0.52	6					Layering	3.67	0.82	6
Stains	3.40	0.89	5								
Shrinkage	3.00	0.71	5								
Ease of Care	x	s.d.	n	Ventilation	x	s.d.	n				
Washing	3.20	0.45	5	Entry	4.00	0.63	6				
Drying	3.00	1.10	6	Exit	4.00	0.63	6				
Repairs	3.33	0.82	6	Operation	4.00	0.63	6				
				Maintenance	3.83	0.75	6				

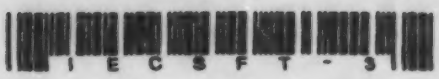
Section C: Fit

	x	s.d.	n
Neck	1.80	0.45	5
Shoulders	1.83	0.41	6
Chest	1.80	0.45	5
Waist	1.83	0.41	6
Hips/Seat	1.60	0.55	5
Body Length	1.80	0.45	5
Armpit	1.83	0.41	6
Elbow	1.83	0.41	6
Wrist	1.67	0.52	6
Arm Length	1.83	0.41	6



Section D: Overall Ratings

	x	s.d.	n		x	s.d.	n		x	s.d.	n
Appearance	4.33	0.82	6	Function	4.00	1.10	6	Durability	3.83	1.60	6



IECS Fleece Top

Section E: Size Issued

Small						Medium						Large						Extra Large			
Short		Regular		Long		Short		Regular		Long		Short		Regular		Long		Regular		Long	
n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
								3	50.0					2	33.3						

Section F: Replacement Items

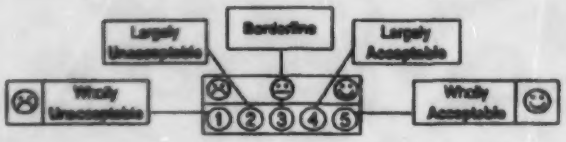
Are you buying replacement items for this piece of kit?	3	50.0	3	50.0
Please provide the name brand or description of the replacement item:				

Section G: Comments

IECSJAK-1

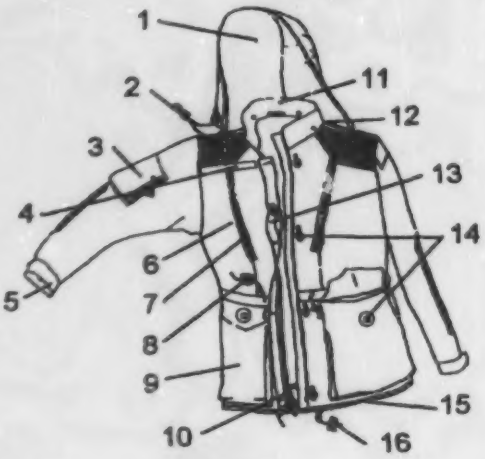
IECS Jacket

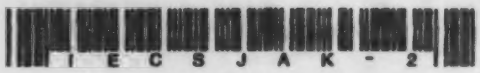
Never	0	0.0
Occasionally	4	80.0
Frequently	1	20.0



Section A: Specific Features

	x̄	s.d.	n	x̄	s.d.	n
1. Hood	3.60	0.55	5	3.50	1.29	4
2. Hood Drawstring	3.75	0.50	4	4.00	0.82	4
3. Arm Pocket	4.25	0.50	4	4.25	0.50	4
4. Velcro Name Tag	3.75	0.50	4	4.00	0.82	4
5. Cuff	3.75	0.50	4	3.80	1.10	5
6. Breast Pocket	4.20	0.45	5	4.00	0.82	4
7. Pocket Zip	3.50	0.58	4	3.75	0.96	4
8. Waist Drawstring	3.75	0.96	4	3.80	0.84	5
9. Cargo Pocket	4.25	0.50	4	4.25	0.50	4
10. Main Zip	4.25	0.50	4	4.00	1.00	3
11. Collar	4.25	0.96	4	4.25	0.96	4
12. Hood Pouch	3.75	0.50	4	4.00	0.71	5
13. Rank Slide	4.33	0.58	3	4.00	0.82	4
14. Buttons	3.75	1.26	4	3.80	0.84	5
15. Rear Pouch	4.00	0.82	4	3.80	0.84	5
16. Hem Drawstring	4.00	0.82	4	3.75	1.26	4



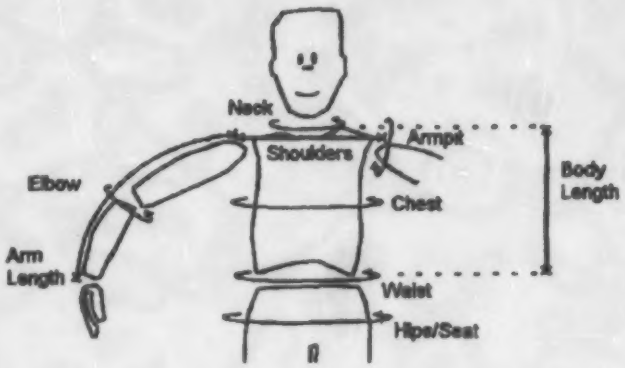


Section B: Whole item

Activities	x	s.d.	n	Suitable for	x	s.d.	n	Compatibility	x	s.d.	n
Neck Bending	4.20	0.45	5	Cold Weather	4.60	0.55	5	Shirt, cbt	4.00	0.71	5
Reaching	4.20	0.45	5	Cool Weather	4.40	0.89	5	Rain jacket	4.00	0.82	4
Throwing	4.33	0.56	3	Warm Weather	4.00	0.71	5	Polar fleece	3.75	0.96	4
Trunk Bending	4.00	0.82	4	Hot Weather	4.00	1.23	5	Trousers, cbt	4.00	1.00	3
Crouching	4.25	0.50	4	Snow	4.20	0.45	5	Helmet, M1	4.20	0.45	5
Sitting	4.25	0.50	4	Rain	4.20	0.45	5	NBC IPE	4.60	0.55	5
Crawling	4.00	0.82	4	Wind	4.40	0.55	5	Rucksack	4.40	0.55	5
Climbing	4.00	0.82	4	Ventilation	3.60	1.14	5	Weapons	4.20	0.45	5
Marching	4.25	0.50	4	[illegible]	[illegible]	[illegible]	[illegible]	Std. Webbing	4.40	0.55	5
Running	4.00	0.82	4	In Vehicles	4.00	0.71	5	Gloves	4.60	0.55	5
Digging	4.25	0.50	4	Bulk	4.20	0.45	5	IECS Windpants	4.20	0.84	5
Skiing	4.25	0.50	4	Weight	4.20	0.45	5				
Field Living	4.20	0.45	5	Hood	4.20	0.45	5				
Durability	x	s.d.	n	Adjustment	x	s.d.	n	Other	x	s.d.	n
Tears	3.80	1.10	5	Put on	4.20	0.45	5	Colour	4.20	0.45	5
Wear	4.50	0.58	4	Adjust fit	3.60	1.14	5	Noise	4.00	0.71	5
Snagging	2.25	0.96	4	Take off	4.00	0.82	4	Smell	4.20	0.45	5
Stitching	1.50	0.58	4					Layering	4.20	0.45	5
Stains	4.25	0.96	4								
Shrinkage	4.33	0.58	3								
Care	x	s.d.	n	Maintenance	x	s.d.	n				
Washing	4.50	0.58	4	Entry	4.00	0.71	5				
Drying	4.50	0.58	4	Exit	4.00	0.71	5				
Repairs	4.40	0.55	5	Operation	4.00	0.71	5				
Brushing	4.60	0.55	5	Maintenance	4.25	0.50	4				

Section C: Fit

	x̄	s.d.	n
Neck	2.00	0.00	5
Shoulders	2.00	0.00	5
Chest	2.00	0.00	5
Waist	2.00	0.00	5
Hips/Seat	2.00	0.00	5
Body Length	2.00	0.00	5
Armpit	1.80	0.45	5
Elbow	2.00	0.00	5
Wrist	2.00	0.00	5
Arm Length	1.80	0.45	5



Section D: Overall Ratings

Appearance	4.40	0.55	5	Function	4.60	0.55	5	Durability	4.20	0.84	5

Section E: Size Issued

Small				Medium				Large				Extra Large			
Short		Reg		Long		Short		Reg		Long		Reg		Long	
n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
		1	20.0					2	40.0					2	40.0						

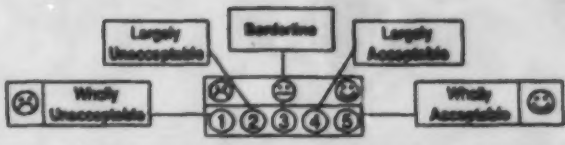
Section F: Replacement Items

	Yes		No	
	n		n	
Are you buying replacement items for this piece of kit?			2	100.
Please provide the name brand or description of the replacement item:				

Section G: Comments

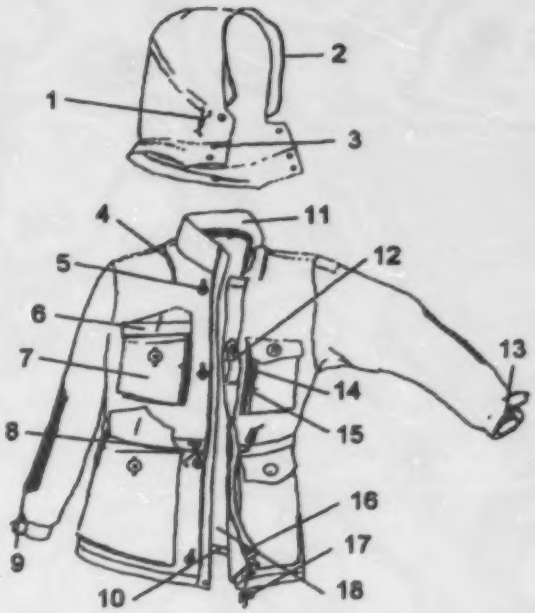
IECS Parka

[illegible]		
Never	0	0.0
Occasionally	1	33.3
Frequently	2	66.6



Section A: Specific Features

	[illegible]					
1. Hood Drawstring	3.33	0.58	3	3.33	0.58	3
2. Hood Stiffener	3.33	0.58	3	3.33	0.58	3
3. Hood Buttons	3.33	0.58	3	3.33	0.58	3
4. Hood Zip	3.33	0.58	3	3.33	0.58	3
5. Buttons	3.00	0.00	3	2.67	0.58	3
6. Velcro Name Tag	3.67	0.58	3	3.33	1.16	3
7. Breast Pocket	3.33	1.16	3	3.33	0.58	3
8. Waist Drawstring	3.67	0.58	3	3.67	0.58	3
9. Cuff Velcro	3.67	0.58	3	3.67	0.58	3
10. Rear Pouch	4.33	0.58	3	4.00	0.00	3
11. Collar	3.67	0.58	3	3.67	0.58	3
12. Rank Slide	3.67	0.58	3	3.33	0.58	3
13. Elastic Cuff	3.00	1.00	3	3.00	1.00	3
14. Side Pocket	3.67	0.58	3	3.33	0.58	3
15. Side Pocket Zip	3.67	0.58	3	3.00	1.00	3
16. Main Zip	3.33	0.58	3	3.00	0.00	3
17. Hip Drawstring	3.67	0.58	3	3.33	0.58	3
18. Liner	3.33	0.58	3	3.33	0.58	3



Section B: Whole Garment

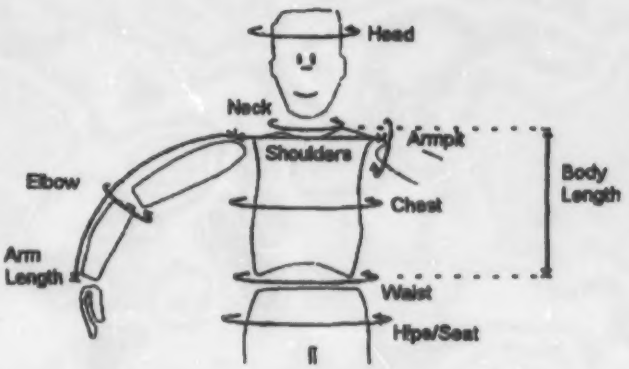
Activities	x	s.d.	n	Suitable for:	x	s.d.	n	Compatibility	x	s.d.	n
Neck Bending	3.00	1.00	3	Cold Weather	4.00	1.00	3	Shirt, mans, field	3.33	0.58	3
Reaching	3.33	1.16	3	Cool Weather	3.33	1.16	3	IECS Jacket	2.67	2.08	3
Throwing	3.00	1.00	3	Warm Weather	1.67	1.16	3	Fleece Top	2.67	0.58	3
Trunk Bending	3.67	0.58	3	Hot Weather	1.00	0.00	3	Trousers, cbt	3.67	0.58	3
Crouching	3.33	0.58	3	Snow	5.00	0.00	3	Helmet, M1	3.00	1.73	3
Sitting	3.33	0.58	3	Rain	4.00	1.00	3	NBC IPE	1.67	1.16	3
Crawling	2.67	0.58	3	Wind	4.67	0.58	3	Rucksack	2.00	1.73	3
Climbing	3.00	0.00	3	Stowage	x	s.d.	n	Weapons	3.00	1.00	3
Marching	2.67	1.16	3	In Webbing	2.00	1.00	3	Std. Webbing	2.33	1.16	3
Running	3.00	1.00	3	In Vehicles	3.00	1.00	3	Chest Webbing	2.33	1.16	3
Digging	2.67	1.16	3	Bulk	2.67	1.16	3	Handwear	3.67	0.58	3
Skiing	3.00	1.41	2	Weight	3.67	1.16	3				
Field Living	3.33	0.58	3	Hood	3.33	0.58	3				
Durability	x	s.d.	n	Adjustment	x	s.d.	n	Other	x	s.d.	n
Tears	3.67	1.16	3	Put on	3.33	1.16	3	Colour	3.67	0.58	3
Wear	3.67	0.58	3	Adjust fit	3.67	0.58	3	Noise	3.00	1.00	3
Snagging	3.33	1.16	3	Take off	3.67	0.58	3	Smell	3.67	0.58	3
Stitching	3.00	0.00	3					Layering	3.33	0.58	3
Stains	3.00	1.00	3					Hood	3.67	0.58	3
	x	s.d.	n	Vehicles	x	s.d.	n				
Washing	2.67	0.58	3	Entry	3.33	0.58	3				
Drying	2.33	1.16	3	Exit	3.00	1.00	3				
Repairs	2.67	0.58	3	Operation	3.67	0.58	3				
				Maintenance	3.33	0.58	3				

PARKA - 2

IECS Parka

Section C: Fit

	x̄	s.d.	n
Neck	2.00	0.00	3
Shoulders	1.67	0.58	3
Chest	1.67	0.58	3
Waist	2.00	0.00	3
Hips/Seat	2.00	0.00	3
Body Length	2.33	0.58	3
Armpit	1.33	0.58	3
Elbow	2.00	0.00	3
Wrist	1.67	0.58	3
Arm Length	1.67	0.58	3



Section D: Overall Ratings

[illegible]	3.67	0.58	3	Function	3.33	0.58	3	Durability	3.00	0.00	3

Section E: Size Issued

Small				Medium				Large				Extra Large			
Short		Regular		Long		Short		Regular		Long		Short		Regular		Long		Short		Regular		Long	
n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
		1	33.3											2	66.7								

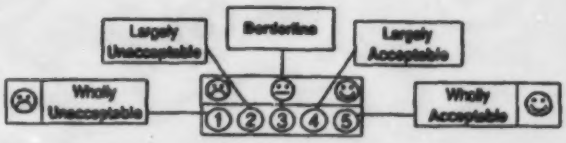
Section F: Replacement Items

	Yes		No	
Are you buying replacement items for this piece of kit?			3	100.
Please provide the name brand or description of the replacement item:				

Section G: Comments

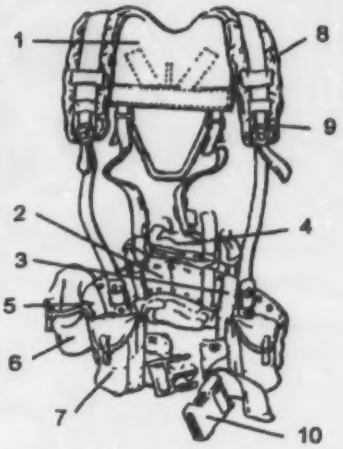
Webbing, Battle Order

I have worn this item:			
	n	%	
Never	2	3.5	Do not fill out this item
Occasionally	2	3.5	Go to Section A and Continue
Frequently	54	93.0	



Section A: Specific Features

	Function (work well)			Durability (wears well)		
	x	s.d.	n	x	s.d.	n
1. Yoke Straps	2.93	1.02	58	3.08	1.21	53
2. Utility Belt	2.64	0.97	58	2.46	1.30	55
3. Bayonet Holder	3.28	1.04	58	3.16	1.25	58
4. Small Field Pack	2.71	1.08	58	2.66	1.19	58
5. KFS Carrier	2.17	1.14	58	2.47	1.31	58
6. Canteen Carrier	2.74	0.97	58	2.55	1.11	58
7. Magazine Pouch	2.57	1.17	58	2.48	1.20	58
8. Shoulder Straps	2.86	1.16	58	3.03	1.27	58
9. Strap Adjusters	2.79	1.24	58	2.81	1.23	58
10. Belt Connector	2.21	1.28	58	1.97	1.24	58



Section B: Whole Item

Activities	x	s.d.	n	Suitable for:	x	s.d.	n	Compatibility			
Reaching	3.27	0.92	56	Cold Weather	2.37	1.08	57	Undershirt	3.49	0.96	55
Throwing	3.07	0.96	55	Cool Weather	2.95	0.98	56	Combat shirt	3.43	0.89	56
Trunk Bending	2.48	0.92	56	Warm Weather	3.25	0.71	57	Combat jacket	2.66	0.90	56
Crouching	2.91	0.88	56	Hot Weather	2.91	0.98	56	Trousers, cbt	3.52	0.76	58
Sitting	2.88	1.00	57	Snow	2.31	1.14	55	Helmet, M1	3.06	1.10	53
Crawling	2.00	0.95	56	Rain	2.56	1.05	57	Parka	1.77	0.87	57
Climbing	2.18	0.97	57	Wind	3.18	0.84	55	NBC garment	1.93	0.86	57
Marching	2.79	1.08	57	Ventilation	2.59	1.16	56	Weapons	2.97	0.98	57
Running	1.90	1.05	57	**Stowage**	**x**	**s.d.**	**n**	Frag Vest	1.33	0.55	55
Digging	2.07	1.02	56	In Vehicles	2.52	0.99	56	Rucksack	1.62	0.95	58
Skiing	2.04	1.01	50	Bulk	2.28	1.00	57				
Field Living	2.88	0.99	58	Weight	2.29	0.97	56				

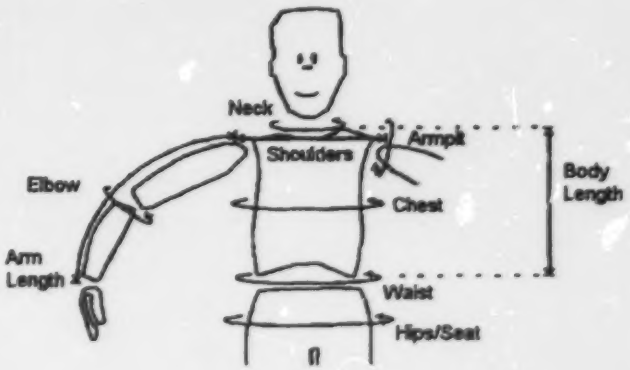
Webbing, Battle Order

Section B: Whole Item (Continued)

Durability	x	s.d.	n	Adjustment	x	s.d.	n	Other:	x	s.d.	n
Tears	2.82	1.05	56	Put on	3.15	0.95	55	Colour	3.60	0.82	57
Wear	2.89	1.01	55	Adjust fit	2.44	0.96	57	Noise	2.89	0.98	57
Snagging	2.24	0.98	58	Take off	3.35	0.95	57	Smell	3.49	0.78	57
Stitching	2.52	1.03	56					Layering	2.51	1.10	57
Stains	2.82	1.05	56								
[illegible]	[illegible]	[illegible]	[illegible]	Vehicles	x	[illegible]	[illegible]	Comfort:	x	[illegible]	[illegible]
Washing	2.94	1.05	54	Entry	1.79	0.80	57	Neck	3.00	1.02	57
Drying	2.67	1.06	54	Exit	1.70	0.73	57	Shoulders	2.59	1.06	58
Repairs	2.13	0.96	55	Operation	2.14	0.99	57	Chest	3.07	1.01	58
Brushing	3.00	0.88	42	Maintenance	2.14	1.05	56	Armpits	3.41	1.02	56
								Waist	2.33	1.08	57

Section C: Fit

	[illegible]	[illegible]	n
Neck	1.89	0.37	55
Shoulders	1.95	0.45	55
Chest	1.94	0.36	54
Waist	1.96	0.61	55
Body Length	1.89	0.46	54



Section D: Overall Ratings

	x	s.d.	n		x	s.d.	n		x	s.d.	n
Appearance	3.07	0.92	58	Function	2.45	0.96	58	Durability	2.85	1.01	58

Webbing, Battle Order

Section E: Size Issued

Section F: Replacement Items

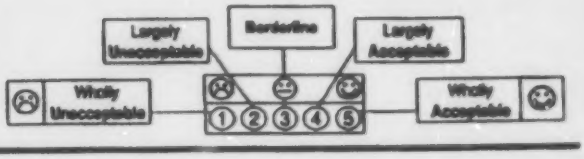
	Yes		No	
	n	%	n	%
Are you buying replacement items for this piece of kit?	3	8.6	51	91.4

Please provide the name brand or description of the replacement item:

Section G: Comments

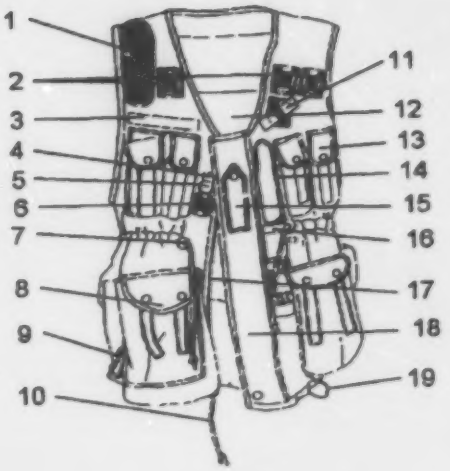
Load Carriage Vest

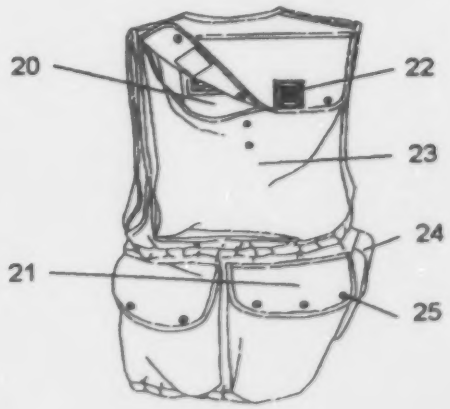
I have worn this garment:		
	n	%
Never	0	0.0
Occasionally	8	100.0
Frequently	0	0.0

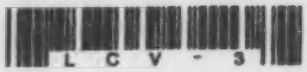


Section A: Specific Features

	x	s.d.	n	x	s.d.	n
1. Rifle Butt Pad	3.25	1.28	8	3.13	1.46	8
2. Grenade Retainer	3.38	1.60	8	3.13	1.25	8
3. Name Tag	3.75	1.39	8	3.13	1.25	8
4. Pen Light Sleeve	3.25	1.04	8	3.25	1.28	8
5. Pen Light Tiedown	3.38	1.06	8	3.50	1.20	8
6. Flashlight Retainer	3.25	1.28	8	3.38	1.19	8
7. Waist Drawstring	3.38	1.06	8	3.63	1.30	8
8. Grenade Pouch	3.38	0.74	8	3.63	1.06	8
9. Utility Clip	3.50	1.20	8	3.38	1.19	8
10. Hip Drawstring	3.25	1.17	8	3.75	1.17	8
11. Handset Retainer	3.25	1.28	8	3.50	1.20	8
12. Plate Pocket	2.38	1.06	8	3.25	1.49	8
13. Magazine Pockets	3.00	1.31	8	3.50	1.41	8
14. Pen Sleeve	3.38	0.92	8	3.63	1.06	8
15. Rank Sleeve	3.88	0.84	8	3.63	1.06	8
16. Bayonet Holder	3.25	1.28	8	3.50	1.20	8
17. Main Zipper	3.75	1.04	8	3.13	1.36	8
18. Main Closure Flap	3.75	0.89	8	3.50	1.20	8
19. Carrier Attachment	3.25	1.17	8	3.63	1.51	8
20. Plate Pocket	2.63	1.51	8	3.38	1.30	8
21. Butt Pack	2.63	1.30	8	3.63	1.30	8
22. Utility Retainers	2.75	1.58	8	3.63	1.30	8
23. Cargo Pocket	2.50	1.31	8	3.63	1.41	8
24. Canteen Pouch	3.25	1.49	8	3.71	1.38	7
25. Snaps	2.88	1.25	8	3.50	1.41	8







Load Carriage Vest

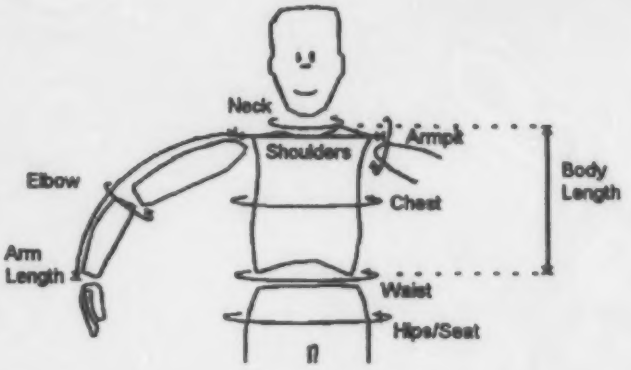
Section B: Whole Item

Activities	x	s.d.	n	Suitable for:	x	s.d.	n	Compatibility	x	s.d.	n
Neck Bending	3.75	1.28	8	Cold Weather	3.38	1.06	8	Undershirt	3.86	0.90	7
Reaching	3.50	1.20	8	Cool Weather	3.75	0.89	8	Combat shirt	3.86	0.90	7
Throwing	3.50	1.07	8	Warm Weather	2.63	1.41	8	Combat jacket	2.57	1.51	7
Trunk Bending	3.25	1.17	8	Hot Weather	1.63	0.74	8	Trousers, cbt	4.00	1.00	7
Crouching	3.50	1.41	8	Snow	2.75	1.28	8	Helmet, M1	3.43	1.40	7
Sitting	3.25	1.28	8	Rain	2.50	0.93	8	Parka	2.00	1.27	6
Crawling	3.38	1.41	8	Wind	3.38	1.06	8	NBC garment	1.83	0.98	6
Climbing	3.25	1.17	8	Ventilation	1.50	1.07	8	Webbing	1.20	0.45	5
Marching	2.63	1.51	8	Stowage	x	s.d.	n	Weapons	3.71	1.11	7
Running	2.63	1.06	8	In Webbing	2.00	1.41	7	Frag Vest	2.00	1.27	6
Digging	2.13	0.99	8	In Vehicles	3.25	1.17	8	IECS Jacket	3.50	0.71	2
Skiing	2.00	1.07	8	Bulk	2.88	1.13	8				
Field Living	3.25	1.04	8	Weight	2.88	1.46	8				
Durability	x	s.d.	n	Adjustment	x	s.d.	n	Other	x	s.d.	n
Tears	3.28	1.13	7	Put on	3.38	1.19	8	Colour	3.71	1.11	7
Wear	3.71	1.11	7	Adjust fit	3.00	1.07	8	Noise	3.43	1.28	7
Snagging	4.00	1.00	7	Take off	3.75	1.04	8	Smell	3.71	0.86	7
Stitching	3.71	1.11	7					Layering	3.29	1.11	7
Stains	3.57	0.54	7								
Care	x	s.d.	n	Ventilation	x	s.d.	n	Comfort	x	s.d.	n
Washing	3.43	0.98	7	Entry	3.25	1.04	8	Neck	3.43	1.28	7
Drying	3.00	1.29	7	Exit	3.38	1.06	8	Shoulders	3.43	1.13	7
Repairs	2.71	1.11	7	Operation	3.38	1.19	8	Chest	3.29	1.25	7
Brushing	3.29	0.95	7	Maintenance	2.88	1.55	8	Armpits	3.29	1.38	7
								Waist	3.57	1.27	7

Load Carriage Vest

Section C: Fit

	[illegible]	s.d.	n
Neck	1.88	0.35	8
Shoulders	1.88	0.35	8
Chest	1.88	0.35	8
Waist	2.13	0.35	8
Body Length	2.13	0.35	8
Armpit	1.50	0.54	8



Section D: Overall Ratings

[illegible]	4.00	0.93	8	Function	3.25	1.17	8	Durability	3.88	0.84	8

Section E: Size

[illegible]			
[illegible]		[illegible]	
4	50.0	4	50.0

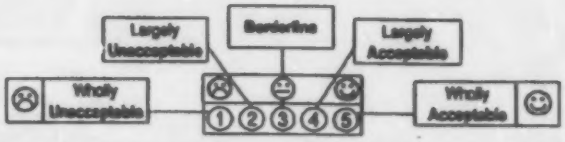
Section F: Replacement Items

	[illegible]		[illegible]	
	[illegible]	[illegible]	[illegible]	[illegible]
Are you buying replacement items for this piece of kit?			5	100.
Please provide the name brand or description of the replacement item:				

Section G: Comments

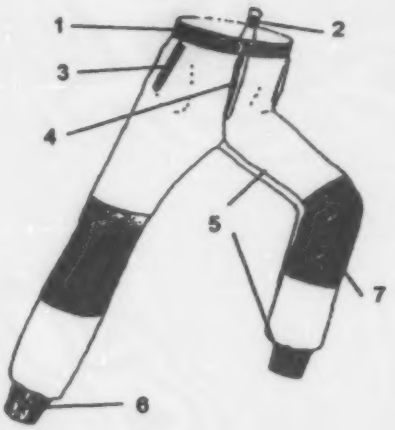
IECS Fleece Pants

I have worn this garment...			
Never	0	0.0	Do not fill out this item
Occasionally	3	75.0	Go to Section A and Continue
Frequently	1	25.0	



Section A: Specific Features

	Function (works well)			Durability (wears well)		
	x̄	s.d.	n	x̄	s.d.	n
1. Waist Elastic	3.00	1.41	4	3.75	0.50	4
2. Waist Drawstring	3.50	0.58	4	4.00	0.00	4
3. Side Pocket	3.00	1.73	3	3.00	2.00	4
4. Zipper	3.75	0.50	4	4.00	0.00	3
5. Seams	3.75	0.50	4	4.00	0.00	4
6. Ankle Elastic	2.67	1.53	3	3.75	0.50	4
7. Knee Protectors	4.25	0.50	4	4.25	0.50	4
8.						
9.						
10.						



Section B: Whole Item

Activities	x̄	s.d.	n	Suitable for:	x̄	s.d.	n	Compatibility	x̄	s.d.	n
Trunk Bending	4.00	0.00	4	Cold Weather	4.75	0.50	4	Trousers cbt	3.50	1.00	4
Crouching	4.00	0.00	3	Cool Weather	4.25	0.50	4	IECS Windpants	4.00	0.00	4
Sitting	4.25	0.50	4	Warm Weather	2.00	1.16	4	Socks, GS	3.50	1.00	4
Crawling	4.25	0.50	4	Hot Weather	1.25	0.50	4	Socks, Wool	3.50	1.00	4
Climbing	4.00	0.00	4	Snow	4.50	0.58	4	Boot Liner	3.50	1.00	4
Marching	3.75	0.50	4	Rain	4.25	0.50	4	Boot cbt	3.33	1.16	3
Running	3.75	0.50	4	Wind	4.50	0.58	4	Drawers, Boxer	2.50	1.00	4
Digging	4.00	0.00	4	Stowage	x̄	s.d.	n	Drawers, CW	2.67	1.16	3
Skiing	4.00	0.00	3	In webbing	3.50	0.58	4				
Field Living	4.00	0.00	4	In vehicles	4.00	0.00	2				
Standing	4.00	0.00	4	Bulk	4.00	0.00	4				
Lying Prone	4.25	0.50	4	Weight	4.00	0.00	4				

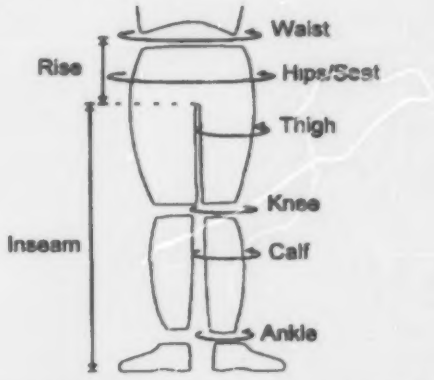
IECS Fleece Pants

Section B: Whole Item (Continued)

Durability	x	s.d.	n	Adjustment	x	s.d.	n	Other:	x	s.d.	n
Tears	4.00	0.00	4	Put on	4.00	0.00	4	Colour	4.25	0.50	4
Wear	4.00	0.00	3	Take off	4.00	0.00	4	Noise	4.25	0.50	4
Snagging	4.00	0.00	3					Smell	4.25	0.50	4
Stitching	4.00	0.00	4					Layering	4.25	0.50	4
Stains	4.00	0.00	4					Shrinkage	4.25	0.50	4
Material	4.00	0.00	3								
								Comfort:			
Washing	4.00	0.00	4	Entry	3.75	0.50	4	Waist	3.50	1.00	4
Drying	4.00	0.00	3	Exit	3.67	0.58	3	Crotch	4.00	0.00	4
Repairs	4.00	0.00	3	Operation	4.00	0.00	3	Thigh	4.00	0.00	4
Brushing	2.67	2.31	3	Maintenance	4.00	0.00	3	Material	4.25	0.50	4
Ironing	3.33	1.16	3					Ankle	3.50	1.00	4

Section C: Fit

	x	s.d.	n
Waist	1.67	0.58	3
Hips/Seat	1.75	0.50	4
Rise	1.75	0.50	4
Thighs	2.00	0.00	4
Knees	2.00	0.00	4
Calves	2.00	0.00	4
Ankles	1.50	0.58	4
Inseam	1.75	0.50	4



Section D: Overall Ratings

	x	s.d.	n		x	s.d.	n		x	s.d.	n
Appearance	4.50	0.58	4	Function	5.00	0.00	4	Durability	4.75	0.50	4

IECSFP-3

IECS Fleece Pants

Section E: Size Issued

	n	%		n	%		n	%		n	%
Small			Medium	2	50.0	Large	2	50.0	Extra Large		

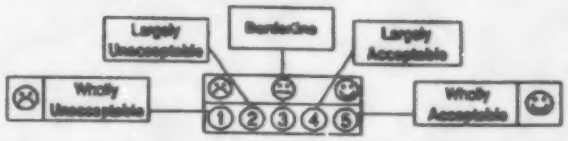
Section F: Replacement Items

Are you buying replacement items for this piece of kit?			4	100.
Please provide the name brand or description of the replacement item:				

Section G: Comments

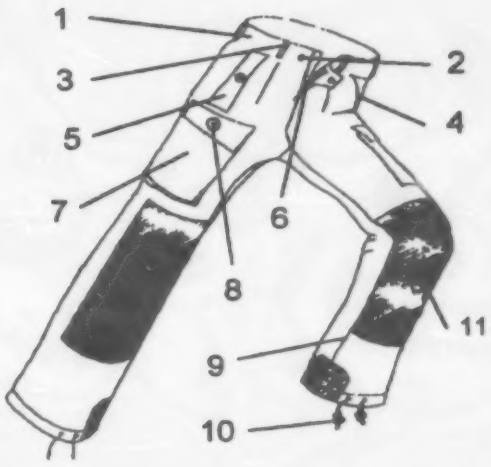
IECS Windpants

Never	0	0.0
Occasionally	3	60.0
Frequently	2	40.0



Section A: Specific Features

	x	s.d.	n	x	s.d.	n
1. Side Elastic	3.25	1.50	4	3.40	0.89	5
2. Waist Snap	3.25	1.50	4	3.60	0.89	5
3. Belt Loops	2.75	1.26	4	3.40	0.89	5
4. Side Pocket	3.25	1.50	4	3.40	0.89	5
5. Side Pocket Flap	3.60	0.89	5	3.40	0.89	5
6. Zipper	3.50	0.58	4	3.40	0.89	5
7. Thigh Pockets	3.80	0.45	5	3.40	0.89	5
8. Buttons	3.00	0.82	4	3.20	0.84	5
9. All Seams	3.25	0.50	4	3.20	0.84	5
10. Hem Drawcord	3.00	1.41	4	3.40	0.89	5
11. Knee Protectors	3.60	1.52	5	3.80	1.10	5



Section B: Whole Item

	x	s.d.	n		x	s.d.	n		x	s.d.	n
Trunk Bending	3.40	1.34	5	Cold Weather	3.80	1.64	5	Drawers, boxer	3.20	1.30	5
Crouching	3.40	1.34	5	Cool Weather	3.60	1.52	5	Drawers, therm.	3.40	0.89	5
Sitting	3.40	1.34	5	Warm Weather	2.20	1.10	5	Trousers, snow	3.00	1.41	5
Crawling	3.20	1.30	5	Hot Weather	1.20	0.45	5	NBC IPE	2.60	1.52	5
Climbing	3.20	1.30	5	Snow	4.00	1.73	5	Socks, GS	3.40	0.89	5
Marching	3.00	1.23	5	Rain	3.60	1.52	5	Socks, wool	3.60	0.55	5
Running	2.80	1.30	5	Wind	3.80	1.64	5	Boots, cbt	3.60	0.55	5
Digging	3.40	1.34	5	Stowage	x	s.d.	n	Jacket, combat	3.20	0.84	5
Skiing	3.25	1.50	4	In webbing	3.20	1.10	5	Parka	3.20	1.10	5
Field Living	3.40	1.34	5	In vehicles	4.00	0.71	5	Shirt, cbt	3.20	0.84	5
Standing	3.60	0.89	5	Bulk	3.40	1.52	5	Fleece Pants	3.20	1.30	5
Lying Prone	3.80	1.64	5	Weight	3.40	1.52	5				

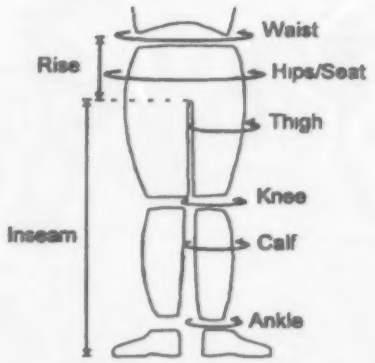
IECS Windpants

Section B: Whole Item (Continued)

Durability	x	s.d.	n	Adjustment	x	s.d.	n	Other	x	s.d.	n
Tears	3.00	1.23	5	Put on	3.40	1.34	5	Colour	3.80	0.45	5
Wear	3.20	1.48	5	Adjust fit	3.40	1.34	5	Noise	3.40	0.89	5
Snagging	3.40	1.52	5	take off	3.40	1.34	5	Smell	3.60	0.89	5
Stitching	3.80	1.10	5					Layering	3.60	1.52	5
Stains	3.50	1.73	4					Shrinkage	3.75	0.96	4
Material	3.25	1.71	4								
Care	x	s.d.	n	Vehicles	x	s.d.	n	Comfort	x	s.d.	n
Washing	3.80	0.84	5	Entry	3.40	1.52	5	Waist	3.60	1.52	5
Drying	4.00	0.71	5	Exit	3.60	1.14	5	Crotch	3.40	1.52	5
Repairs	3.40	1.14	5	Operation	3.60	1.52	5	Thigh	3.60	1.52	5
Brushing	4.00	1.00	3	Maintenance	3.20	1.92	5	Ankle	3.40	1.34	5
								Material	3.40	1.52	5

Section C: Fit

	x	s.d.	n
Waist	2.00	0.00	5
Hips/Seat	2.00	0.00	5
Rise	1.80	0.45	5
Thighs	2.00	0.00	5
Knees	2.00	0.00	5
Calves	2.00	0.00	5
Ankles	1.80	0.45	5
Inseam	2.00	0.00	5



Section D: Overall Ratings

	x	s.d.	n		x	s.d.	n		x	s.d.	n
Appearance	3.60	1.52	5	Function	3.60	1.52	5	Durability	3.80	0.84	5

Section E: Size Issued

Small						Medium						Large						Extra Large			
Short		Reg		Long		Short		Reg		Long		Short		Reg		Long		Reg		Long	
n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
		1	20.0					1	20.0					2	40 0						

Section F: Replacement Items

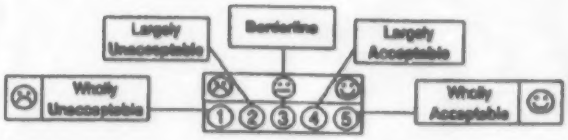
Are you buying replacement items for this piece of kit?	1	20.0	4	80.0
Please provide the name brand or description of the replacement item:				

Section G: Comments

SKMVP-1

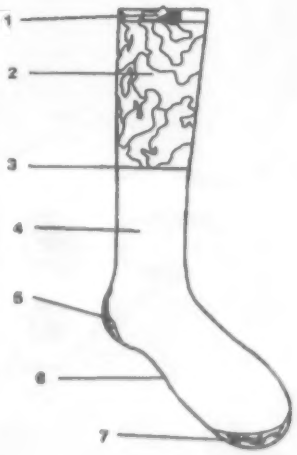
Socks, MVP

I have worn this garment:	n	%	
Never	2	4.2	Do not fill out this item. Go to Section A and Continue.
Occasionally	36	75.0	
Frequently	10	20.8	



Section A: Specific Features

	Function (works well)			Durability (wears well)		
	x̄	s.d.	n	x̄	s.d.	n
1. Velcro Tab	3.58	1.10	47	3.55	1.08	47
2. Upper	3.62	1.03	47	3.62	0.94	45
3. Seams	3.53	1.12	47	3.69	0.95	48
4. Lower	3.64	0.98	45	3.56	0.94	45
5. Heel	3.47	1.21	47	3.51	1.04	47
6. Sole	3.55	1.12	47	3.52	0.91	46
7. Toe	3.67	1.06	46	3.55	0.95	47
8.						
9.						
10.						



Section B: Whole Item

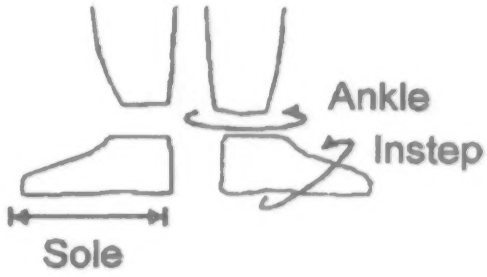
Activities	x̄	s.d.	n	Suitable for...	x̄	s.d.	n	Compatibility	x̄	s.d.	n
Crawling	3.56	1.16	43	Cold weather	3.09	1.23	47	Trousers, cbt	4.02	0.88	44
Climbing	3.46	1.10	41	Cool weather	3.56	1.07	48	Socks, wool	3.58	1.08	47
Walking	3.07	1.11	44	Warm weather	2.87	1.18	45	Socks GS	3.69	0.74	26
Running	3.49	1.16	47	Hot weather	2.13	1.20	46	Overboots	3.33	1.25	46
Digging	3.62	0.94	42	Snow	3.29	1.18	48	Drawers CW	3.73	0.93	37
Marching	2.54	1.29	48	Rain	4.35	0.67	48	NBC IPE	3.54	1.04	35
Field Living	3.67	1.11	45	Wind	3.93	0.82	44	NBC Overboots	3.38	1.13	34
Standing	4.00	1.12	46	Mud/Slush	4.21	0.85	48	Combat Boots	3.42	1.23	45
Lying Prone	4.19	0.96	43					IECS Windpants	4.00	1.06	17
				Vehicles	x̄	s.d.	n				
				Entry/Exit	4.29	0.90	41				
				Operation	4.21	0.87	42				
				Maintenance	4.19	0.80	42				

Section B: Whole Item (Continued)

Durability	x̄	s.d.	n	Adjustment	x̄	s.d.	n	Other:	x̄	s.d.	n
Tears	3.87	0.75	46	Put on	3.81	0.92	47	Colour	4.21	0.72	47
Wear	3.91	0.85	45	Adjust fit	3.24	1.25	46	Noise	3.98	0.90	47
Snagging	3.93	0.84	45	Take off	3.80	0.92	45	Smell	4.04	0.82	46
Stitching	3.94	0.79	47								
Stains	3.89	0.95	44								
				Stowage	x̄	s.d.	n				
				In webbing	4.22	0.73	46	Comfort	x̄	s.d.	n
Care	x̄	s.d.	n	Bulk	4.30	0.78	47	Flex	3.63	1.00	46
Washing	3.95	0.87	43	Weight	4.33	0.85	45	Sole Feeling	3.28	1.17	47
Drying	3.83	1.09	41					Cushioning	2.87	1.22	46
Repairs	2.88	1.42	41					Breaking In	3.68	1.07	47

Section C: Fit

	x̄	s.d.	n
Calf	2.18	0.54	45
Ankle	2.11	0.49	44
Heel	2.07	0.54	45
Instep	2.04	0.56	46
Toes	1.98	0.56	43
Width	1.91	0.56	45
Sole length	1.98	0.45	46
Sock height	2.11	0.38	45



Section D: Overall Ratings

	x̄	s.d.	n		x̄	s.d.	n		x̄	s.d.	n
Appearance	4.15	0.80	48	Function	3.85	1.05	48	Durability	3.90	0.97	48

SKMVP-3

Socks, MVP

Section E: Size Issued

2		3		4		5		6		7		8		9		10		11		12	
n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
								1	2.1	8	16.7	14	29.2	7	14.6	12	25.0	1	2.1	1	2.

13		14	
n	%	n	%

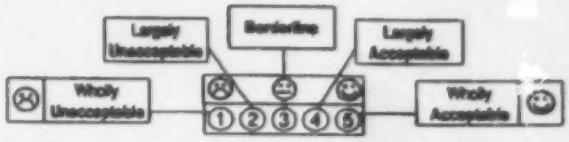
Section F: Replacement Items

Are you buying replacement items for this piece of kit?	5	14.5	39	85.5
Please provide the name brand or description of the replacement item:				

Section G: Comments

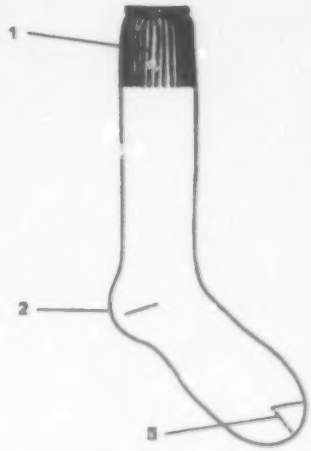
Gray Socks

I have worn this garment:			
	n	%	
Never	0	0.0	Do not fill out this item
Occasionally	13	26.0	Go to Section A and Continue
Frequently	37	74.0	



Section A: Specific Features

	Functional (works well)			Durability (wears well)		
	x	s.d.	n	x	s.d.	n
1. Rib Top	2.82	1.33	49	2.66	1.31	44
2. Heel	2.65	1.22	49	2.09	1.12	44
3. Toe Seam	2.65	1.33	49	2.11	1.17	45
4.						
5.						
6.						
7.						
8.						
9.						
10.						



Section B: Whole Item

Activities	x	s.d.	n	Suitable for:	x	s.d.	n	Compatibility	x	s.d.	n
Crawling	3.31	1.13	48	Cold weather	3.04	1.29	50	Trousers, cbt	3.58	1.16	48
Climbing	3.04	1.25	50	Cool weather	3.33	1.18	49	Boot Liner	3.06	1.23	48
Walking	2.92	1.34	49	Warm weather	2.54	1.15	50	Overboots	3.26	1.26	46
Running	2.51	1.33	49	Hot weather	1.78	1.18	49	Drawers CW	3.36	1.27	42
Digging	3.08	1.29	49					NBC IPE	3.33	1.23	40
Marching	2.56	1.37	50					NBC Overboots	3.20	1.21	41
Field Living	2.92	1.32	50					Combat boot	3.20	1.33	50
Standing	3.35	1.25	48								
Lying Prone	3.39	1.19	49								
				Vehicles	**x**	**s.d.**	**n**				
				Entry/Exit	3.88	0.98	43				
				Operation	3.74	1.14	43				
				Maintenance	3.65	1.13	43				

Gray Socks

Section B: Whole Item (Continued)

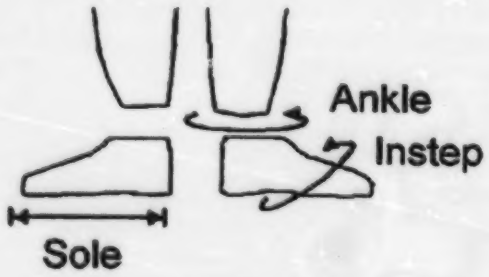
Durability	x	s.d.	n
Tears	2.80	1.26	49
Wear	2.16	1.26	49
Snagging	3.04	1.22	49
Stitching	2.79	1.34	48
Stains	2.73	1.38	49
Care	x	s.d.	n
Washing	3.27	1.15	49
Drying	2.76	1.23	49
Repairs	2.06	1.17	48

Adjustment	x	s.d.	n
Put on	3.52	1.09	48
Adjust fit	3.17	1.27	47
Take off	3.49	1.12	49
[redacted]			
In webbing	3.35	1.18	49
In vehicles	3.87	0.95	47
Bulk	3.31	1.16	49
Weight	3.57	1.10	47

Other	x	s.d.	n
Colour	3.45	1.23	49
Noise	3.76	1.07	49
Smell	3.12	1.35	49
[redacted]			
Flex	3.23	1.28	49
Sole Feeling	2.74	1.44	49
Cushioning	2.35	1.32	49

Section C: Fit

	[redacted]		
Calf	1.94	0.60	48
Ankle	2.07	0.33	45
Heel	2.06	0.43	48
Instep	2.04	0.42	46
Toes	1.89	0.52	47
Width	1.93	0.45	45
Sole length	1.98	0.39	46
Sock height	1.94	0.44	47



Section D: Overall Ratings

	x	s.d.	n
Appearance	3.22	1.06	50

[redacted]	x	s.d.	n
Function	2.72	1.23	50

[redacted]	x	s.d.	n
Durability	2.02	1.17	50

Section E: Size Issued

4.5		5		5.5		6		6.5		7		7.5		8		[illegible]		[illegible]		[illegible]	
n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	[illegible]		[illegible]		[illegible]	
										1	2.0	1	2.0	4	8.0	2	4.0	12	24.0	6	12.0

10		10.5		11		11.5		12		12.5		13		13.5		14		14.5			
n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%		
8	16.0	3	6.0	5	10.0	2	4.0	2	4.0			2	4.0								

Section F: Replacement Items

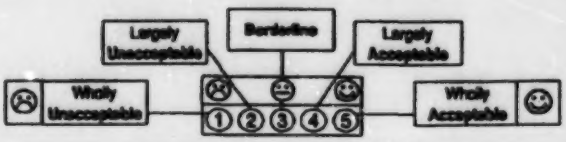
	[illegible]		[illegible]	
	n	%	n	%
Are you buying replacement items for this piece of kit?	28	57.0	21	43.0
Please provide the name brand or description of the replacement item:				

Section G: Comments

BOOT - 1

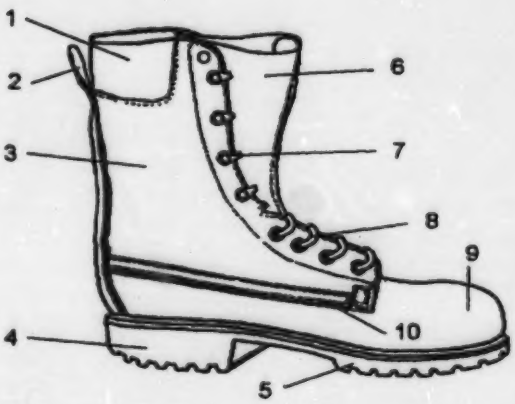
Cold Wet Weather Boot

I have worn this item:			
	n	%	
Never	0	0.0	Do not fill out this form
Occasionally	4	50.0	Go to Section A
Frequently	4	50.0	and Continue



Section A: Specific Features

1. Calf Padding	4.25	0.71	8	4.43	0.64	7
2. Pull Assist	4.38	0.74	8	4.13	0.84	8
3. Upper	4.50	0.54	8	4.43	0.54	7
4. Heel	4.25	0.71	8	4.38	0.52	8
5. Sole	4.25	1.04	8	4.25	1.04	8
6. Tongue	4.43	0.79	7	4.13	0.84	8
7. Eyelet lace system	4.43	0.79	7	4.13	0.99	8
8. Laces	4.43	0.79	7	4.25	0.71	8
9. Toe Cap	4.57	0.54	7	4.57	0.54	7
10. Seams	4.50	0.54	8	4.25	0.71	8



Section B: Whole Item

Activities:				Simulation				Compatibility			
Crawling	4.25	0.71	8	Cold weather	4.13	0.84	8	Trousers, cbt	4.50	0.54	8
Climbing	4.38	0.52	8	Cool weather	4.75	0.46	8	Socks, wool	3.00	1.92	7
Walking	4.38	0.52	8	Warm weather	3.86	1.22	7	Socks GS	4.33	0.58	3
Running	4.13	0.99	8	Hot weather	2.63	1.85	8	Boot Liner	3.00	1.53	7
Digging	4.50	0.54	8	Snow	4.13	0.99	8	Overboots	2.50	1.98	6
Marching	4.29	0.95	7	Rain	4.38	1.06	8	Drawers CW	4.17	0.75	6
Field Living	4.75	0.46	8	Ice	4.43	0.79	7	NBC IPE	3.33	1.63	6
Standing	4.75	0.46	8	Sand	3.75	1.39	8	NBC Overboots	3.25	2.06	4
Lying Prone	4.63	0.52	8	Mud/Slush	4.50	0.54	8	IECS Windpants	4.75	0.50	4
Traction Wet	4.50	0.76	8	Vehicles:	x	s.d.	n	Snowshoes	3.33	1.51	6
Traction Dry	4.50	0.76	8	Entry/Exit	4.38	0.74	8	Skis	3.20	1.48	5
				Operation	4.71	0.49	7				
				Maintenance	4.57	0.54	7				

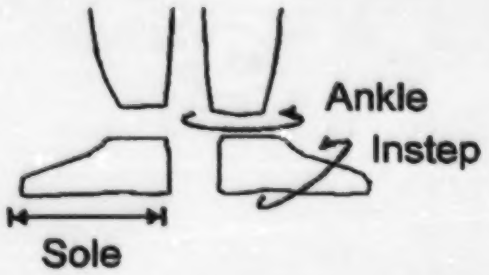
Cold Wet Weather Boot

Section B: Whole Item (Continued)

Durability	x	s.d.	n	Adjustment	x	s.d.	n	Other	x	s.d.	n
Tears	4.38	0.52	8	Put on	4.50	0.54	8	Colour	4.57	0.54	7
Wear	4.50	0.54	8	Adjust fit	4.00	0.54	8	Noise	4.50	0.54	8
Snagging	4.38	0.52	8	Take off	4.38	0.74	8	Smell	4.38	0.52	8
Stitching	4.57	0.54	7								
Stains	4.13	0.99	8								
Leather	4.57	0.54	7	Stowage							
Shine	4.29	0.76	7	In webbing	1.71	1.70	7	Comfort			
Care	x	s.d.	n	In vehicles	4.29	0.95	7	Flex	4.29	0.49	7
Washing	3.88	1.25	8	Bulk	4.14	0.90	7	Sole Feeling	4.29	0.49	7
Drying	3.50	1.51	8	Weight	4.00	1.16	7	Cushioning	4.14	0.69	7
Repairs	3.00	1.63	7					Breaking In	4.14	0.69	7
Brushing	4.00	0.54	8					Warm	4.43	0.54	7
								Dry	4.43	0.54	7

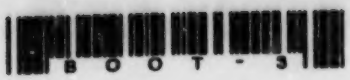
Section C: Fit

	x	s.d.	n
Calf	2.00	0.00	8
Ankle	2.00	0.00	8
Heel	2.00	0.00	8
Instep	2.13	0.35	8
Toes	1.88	0.35	8
Width	2.00	0.54	8
Sole length	2.00	0.00	8
Boot height	1.88	0.35	8



Section D: Overall Ratings

	x	s.d.	n		x	s.d.	n				
Appearance	4.50	0.76	8	Function	4.63	0.74	8	Durability	4.63	0.52	8



Cold Wet Weather Boot

Section E: Size Issued

4.5		5		5.5		6		6.5		7		7.5		8		8.5		9		9.5	
n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
																		3	37.5		

10		10.5		11		11.5		12		12.5		13		13.5		14		14.5	
n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
1	12.5	1	12.5					1	12.5										

Section F: Replacement Items

Are you buying replacement items for this piece of kit?	5	68.5	2	31.5

Please provide the name brand or description of the replacement item:

Section G: Comments

ANNEX D

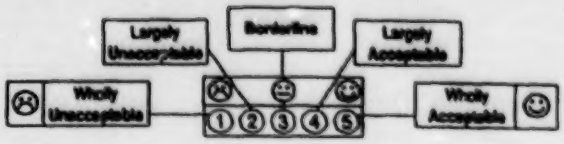
ACCESS RESULTS

Ratings of Percent Unacceptable

H A T - 1

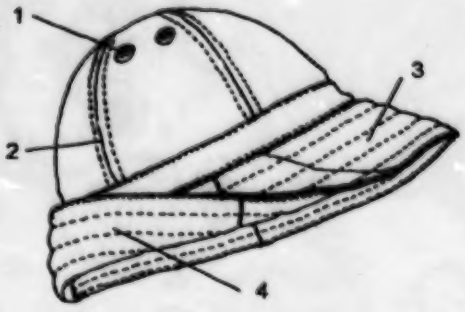
Combat Cap

I have worn this garment:			
	n	%	
Never	0	0.0	Do not fill out this page
Occasionally	5	8.6	Go to Section A and Continue
Frequently	53	91.4	



Section A: Specific Features

	Function (works well) % unacceptable 25 50 75	Durability (wears well) % unacceptable 25 50 75
1. Ventilation Holes		
2 All Seams		
3 Peak		
4 Brim		
5		
6		
7		
8.		
9		



Section B: Whole Item

Activities % unacceptable 25 50 75	Suitable for: % unacceptable 25 50 75	Compatibility % unacceptable 25 50 75
Neck Bending	Cool Weather	Shirt, cbt
Reaching	Warm Weather	Rain jacket
Throwing	Hot Weather	IECS Jacket
Trunk Bending	Rain	Combat Jacket
Crouching	Wind	Rucksack
Sitting	Ventilation	Weapons
Crawling		Hoods
Climbing		Gloves
Marching	**Stowage** % unacceptable 25 50 75	
Running	In Webbing	
Digging	Bulk	
Field Living	Weight	

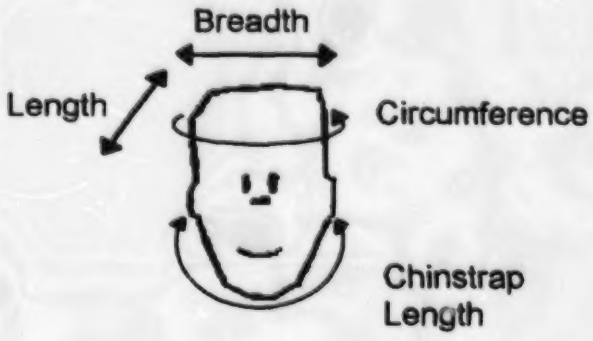
Combat Cap

Section B: Whole Item (Continued)

Durability	% unacceptable 25 50 75	Adjustment	% unacceptable 25 50 75	Other:	% unacceptable 25 50 75
Tears		Put on		Colour	
Wear		Take off		Noise	
Snagging				Smell	
Stitching				Layering	
Stains				Stability	
Care	% unacceptable 25 50 75	**Vehicles**	% unacceptable 25 50 75	**Comfort**	% unacceptable 25 50 75
Washing		Entry		Overall	
Drying		Exit			
Repairs		Operation			
		Maintenance			

Section C: Fit

	% unacceptable 25 50 75
Head Breadth	
Head Length	
Head Circumference	



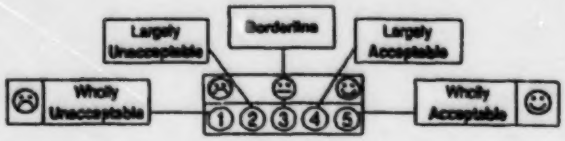
Section D: Overall Ratings

	% unacceptable 25 50 75		% unacceptable 25 50 75		% unacceptable 25 50 75
Appearance		**Function**		**Durability**	

I E C S F T - 1

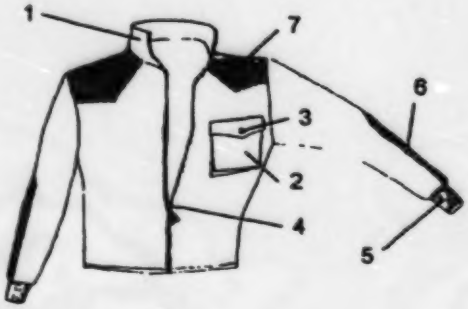
IECS Fleece Top

I have worn this garment:			
	n	%	
Never	0	0.0	Do not fill out this page
Occasionally	5	83.3	Go to Section A and Continue
Frequently	1	16.7	



Section A: Specific Features

	Function (works well) % unacceptable 25 50 75	Durability (wears well) % unacceptable 25 50 75
1 Collar Elastic		
2. Chest Pocket		
3 Chest Pocket Snap		
4. Zipper		
5. Wrist Elastic		
6 Forearm Protector		
7 Shoulder Protector		
8.		
9		



Section B: Whole Item

Activities	% unacceptable 25 50 75	Suitable for:	% unacceptable 25 50 75	Compatibility	% unacceptable 25 50 75
Neck Bending		Cold Weather		Shirt, cbt	
Reaching		Cool Weather		Rain jacket	
Throwing		Warm Weather		Fleece pants	
Trunk Bending		Hot Weather		Trousers, cbt	
Crouching		Snow		Helmet, M1	
Sitting		Rain		NBC IPE	
Crawling		Wind		Rucksack	
Climbing		Ventilation		Weapons	
Marching		**Stowage**	% unacceptable 25 50 75	Std Webbing	
Running		In Vehicles		Gloves	
Digging		Bulk		IECS Jacket	
Skiing		Weight		Undershirt	
Field Living				IECS Parka	

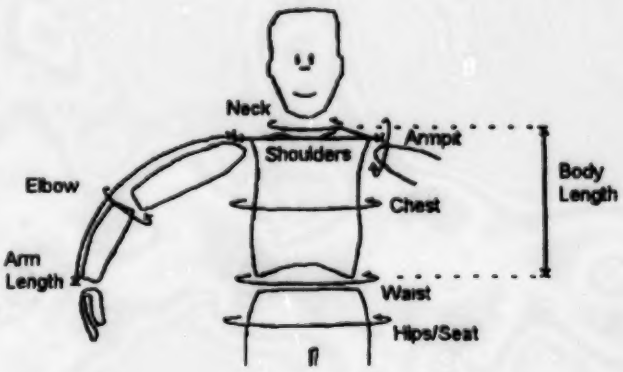
IECS Fleece Top

Section B: Whole Item (Continued)

Durability	% unacceptable 25 50 75	Adjustment	% unacceptable 25 50 75	Other:	% unacceptable 25 50 75
Tears		Put on		Colour	
Wear		Adjust fit		Noise	
Snagging		Take off		Smell	
Stitching				Layering	
Stains					
Shrinkage					
Care	% unacceptable 25 50 75	**Vehicles**	% unacceptable 25 50 75		
Washing		Entry			
Drying		Exit			
Repairs		Operation			
		Maintenance			

Section C: Fit

	% unacceptable 25 50 75
Neck	
Shoulders	
Chest	
Waist	
Hips/Seat	
Body Length	
Armpit	
Elbow	
Wrist	
Arm Length	



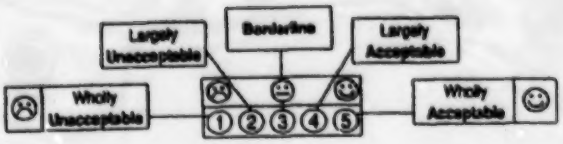
Section D: Overall Ratings

	% unacceptable 25 50 75		% unacceptable 25 50 75		% unacceptable 25 50 75
Appearance		**Function**		**Durability**	

IECS JAK - 1

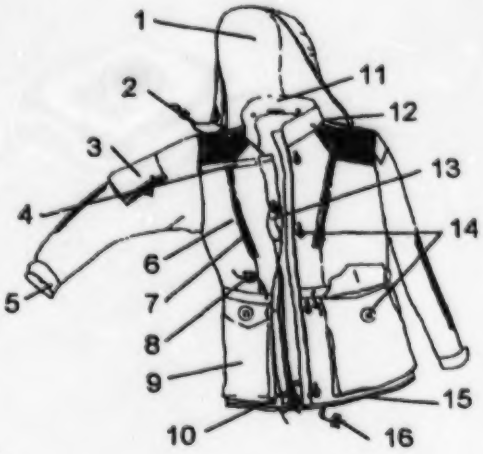
IECS Jacket

I have worn this garment:			
	n	%	
Never	0	0.0	Do not fill out this page
Occasionally	4	80.0	Go to Section A and Continue
Frequently	1	20.0	



Section A: Specific Features

	Function (works well) % unacceptable 25 50 75	Durability (wears well) % unacceptable 25 50 75
1 Hood		■
2 Hood Drawstring		
3. Arm Pocket		
4. Velcro Name Tag		
5. Cuff		■
6. Breast Pocket		
7. Pocket Zip		
8. Waist Drawstring		
9. Cargo Pocket		
10 Main Zip		
11 Collar		
12. Hood Pouch		
13. Rank Slide		
14. Buttons	■	
15. Rear Pouch		
16. Hem Drawstring		■



Section B: Whole Item

Activities	% unacceptable 25 50 75
Neck Bending	
Reaching	
Throwing	
Trunk Bending	
Crouching	
Sitting	
Crawling	
Climbing	
Marching	
Running	
Digging	
Skiing	
Field Living	
Durability	% unacceptable 25 50 75
Tears	
Wear	
Snagging	
Stitching	
Stains	
Shrinkage	
Care	% unacceptable 25 50 75
Washing	
Drying	
Repairs	
Brushing	

Suitable for:	% unacceptable 25 50 75
Cold Weather	
Cool Weather	
Warm Weather	
Hot Weather	
Snow	
Rain	
Wind	
Ventilation	
Stowage	% unacceptable 25 50 75
In Vehicles	
Bulk	
Weight	
Hood	
Adjustment	% unacceptable 25 50 75
Put on	
Adjust fit	
Take off	
Vehicles	% unacceptable 25 50 75
Entry	
Exit	
Operation	
Maintenance	

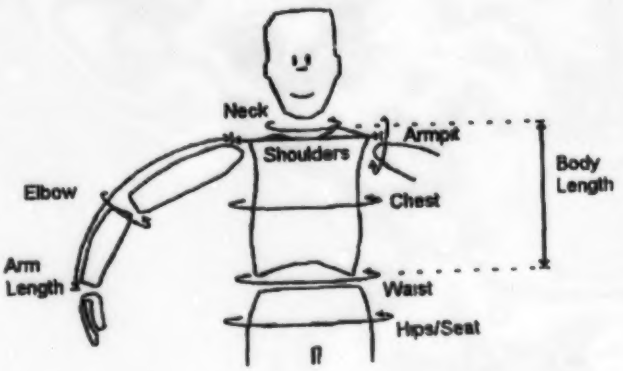
Compatibility	% unacceptable 25 50 75
Shirt, cbt	
Rain jacket	
Polar fleece	
Trousers, cbt	
Helmet, M1	
NBC IPE	
Rucksack	
Weapons	
Std. Webbing	
Gloves	
IECS Windpants	
Other:	% unacceptable 25 50 75
Colour	
Noise	
Smell	
Layering	

IECSJAK-3

IECS Jacket

Section C: Fit

	% unacceptable 25	50	75	
Neck				
Shoulders				
Chest				
Waist				
Hips/Seat				
Body Length				
Armpit	■			
Elbow				
Wrist				
Arm Length	■			



Section D: Overall Ratings

	% unacceptable 25	50	75			% unacceptable 25	50	75			% unacceptable 25	50	75	
Appearance					Function					Durability				

Section E: Size Issued

Small			Medium			Large			Extra Large	
Short	Reg.	Long	Short	Reg.	Long	Short	Reg.	Long	Reg.	Long
○	○	○	○	○	○	○	○	○	○	○

Section F: Replacement Items

	Yes	No
Are you buying replacement items for this piece of kit?	○	○

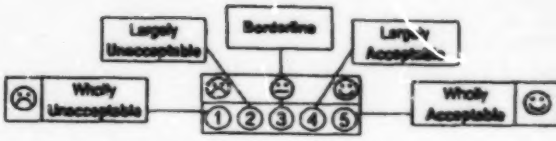
Please provide the name brand or description of the replacement item:

Section G: Comments

PARKA - 1

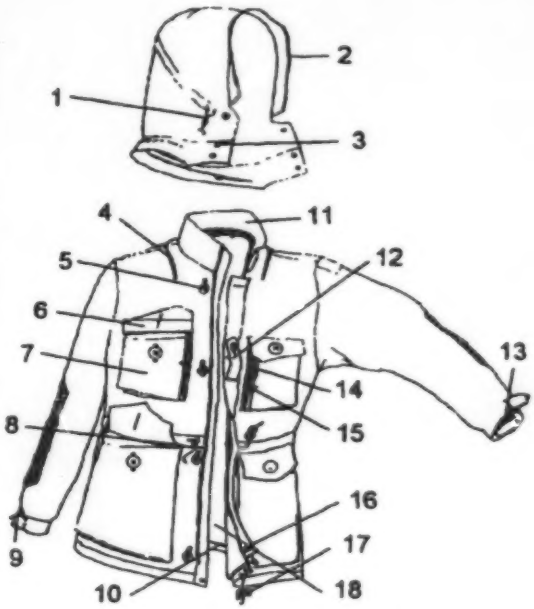
IECS Parka

I have worn this garment:			
	n	%	
Never			Do not fill out this page
Occasionally	1	33.3	Go to Section A and Continue
Frequently	2	66.7	



Section A: Specific Features

	Function (works well) % unacceptable 25 50 75	Durability (wears well) % unacceptable 25 50 75
1 Hood Drawstring		
2 Hood Stiffener		
3. Hood Buttons		
4. Hood Zip		
5 Buttons		
6 Velcro Name Tag		
7 Breast Pocket		
8 Waist Drawstring		
9 Cuff Velcro		
10. Rear Pouch		
11 Collar		
12. Rank Slide		
13 Elastic Cuff		
14. Side Pocket		
15. Side Pocket Zip		
16. Main Zip		
17.Hip Drawstring		
18 Liner		



Section B: Whole Garment

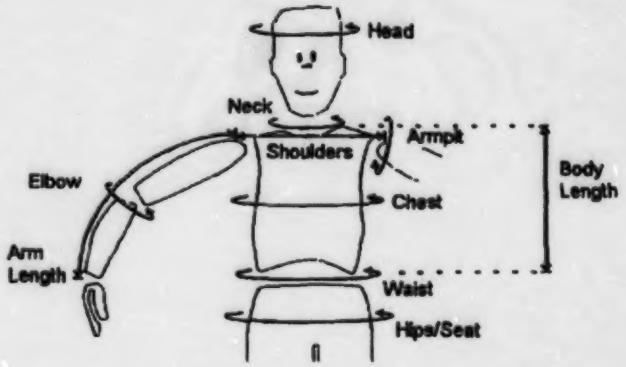
Activities	% unacceptable 25 50 75	Suitable for:	% unacceptable 25 50 75	Compatibility	% unacceptable 25 50 75
Neck Bending		Cold Weather		Shirt, mans,field	
Reaching		Cool Weather		IECS Jacket	
Throwing		Warm Weather		Fleece Top	
Trunk Bending		Hot Weather		Trousers, cbt	
Crouching		Snow		Helmet, M1	
Sitting		Rain		NBC IPE	
Crawling		Wind		Rucksack	
Climbing		**Stowage**	% unacceptable 25 50 75	Weapons	
Marching		In Webbing		Std Webbing	
Running		In Vehicles		Chest Webbing	
Digging		Bulk		Handwear	
Skiing		Weight			
Field Living		Hood			
Durability	% unacceptable 25 50 75	**Adjustment**	% unacceptable 25 50 75	**Other:**	% unacceptable 25 50 75
Tears		Put on		Colour	
Wear		Adjust fit		Noise	
Snagging		Take off		Smell	
Stitching				Layering	
Stains				Hood	
Care	% unacceptable 25 50 75	**Vehicles**	% unacceptable 25 50 75		
Washing		Entry			
Drying		Exit			
Repairs		Operation			
		Maintenance			

PARKA-2

IECS Parka

Section C: Fit

	% unacceptable 25	50	75
Neck			
Shoulders			
Chest			
Waist			
Hips/Seat			
Body Length			
Armpit			
Elbow			
Wrist			
Arm Length			



Section D: Overall Ratings

	% unacceptable 25	50	75		% unacceptable 25	50	75		% unacceptable 25	50	75
Appearance				Function				Durability			

Section E: Size Issued

Small			Medium			Large			Extra Large	
Short	Reg.	Long	Short	Reg.	Long	Short	Reg.	Long	Reg.	Long
o	o	o	o	o	o	o	o	o	o	o

Section F: Replacement Items

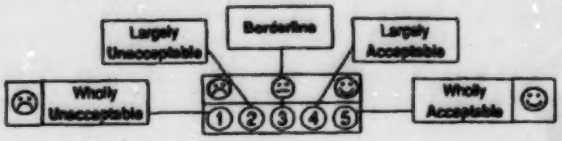
	Yes	No
Are you buying replacement items for this piece of kit?	o	o

Please provide the name brand or description of the replacement item:

Section G: Comments

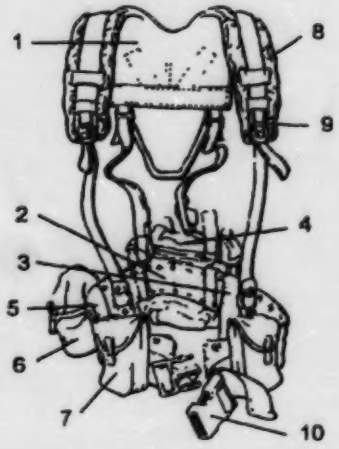
Webbing, Battle Order

I have worn this garment:			
	n	%	
Never	2	3.5	Do not fill out this page
Occasionally	2	3.5	Go to Section A and Continue
Frequently	54	93.0	



Section A: Specific Features

	Function (works well) % unacceptable 25 50 75	Durability (wears well) % unacceptable 25 50 75
1. Yoke Straps		
2 Utility Belt		
3 Bayonet Holder		
4. Small Field Pack		
5 KFS Carrier		
6. Canteen Carrier		
7 Magazine Pouch		
8. Shoulder Straps		
9 Strap Adjusters		
10. Belt Connector		



Section B: Whole Item

Activities	% unacceptable 25 50 75	Suitable for:	% unacceptable 25 50 75	Compatibility	% unacceptable 25 50 75
Reaching		Cold Weather		Undershirt	
Throwing		Cool Weather		Combat shirt	
Trunk Bending		Warm Weather		Combat jacket	
Crouching		Hot Weather		Trousers, cbt	
Sitting		Snow		Helmet, M1	
Crawling		Rain		Parka	
Climbing		Wind		NBC garment	
Marching		Ventilation		Weapons	
Running		**Stowage**	% unacceptable 25 50 75	Frag Vest	
Digging		In Vehicles		Rucksack	
Skiing		Bulk			
Field Living		Weight			

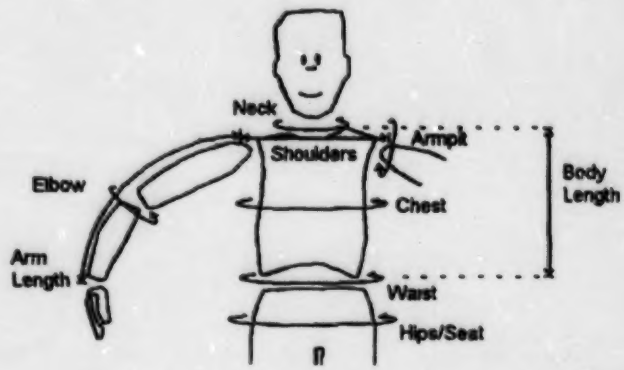
Webbing, Battle Order

Section B: Whole Item (Continued)

Durability	% unacceptable 25 50 75	Adjustment	% unacceptable 25 50 75	Other:	% unacceptable 25 50 75
Tears		Put on		Colour	
Wear		Adjust fit		Noise	
Snagging		Take off		Smell	
Stitching				Layering	
Stains					
Care	% unacceptable 25 50 75	**Vehicles**	% unacceptable 25 50 75	**Comfort**	% unacceptable 25 50 75
Washing		Entry		Neck	
Drying		Exit		Shoulders	
Repairs		Operation		Chest	
Brushing		Maintenance		Armpits	
				Waist	

Section C: Fit

	% unacceptable 25 50 75
Neck	
Shoulders	
Chest	
Waist	
Body Length	



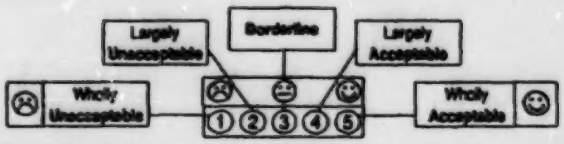
Section D: Overall Ratings

	% unacceptable 25 50 75		% unacceptable 25 50 75		% unacceptable 25 50 75
Appearance		**Function**		**Durability**	

L C V - 1

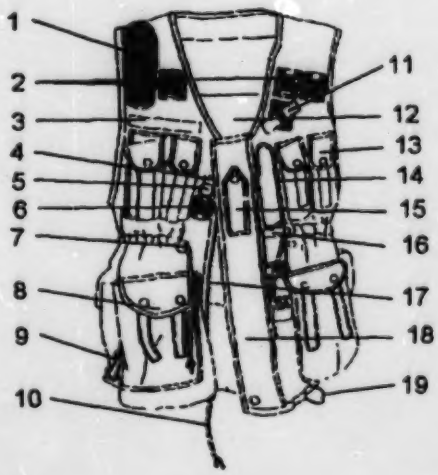
Load Carriage Vest

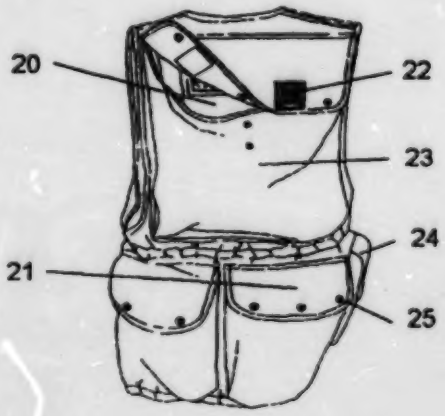
I have worn this garment:			
	n	%	
Never			Do not fill out this page
Occasionally	8	100	Go to Section A and Continue
Frequently			



Section A: Specific Features

	Function (works well) % unacceptable 25 50 75	Durability (wears well) % unacceptable 25 50 75
1. Rifle Butt Pad		
2 Grenade Retainer		
3. Name Tag		
4. Pen Light Sleeve		
5 Pen Light Tiedown		
6. Flashlight Retainer		
7 Waist Drawstring		
8. Grenade Pouch		
9. Utility Clip		
10. Hip Drawstring		
11. Handset Retainer		
12. Plate Pocket		
13 Magazine Pockets		
14. Pen Sleeve		
15. Rank Sleeve		
16 Bayonet Holder		
17. Main Zipper		
18. Main Closure Flap		
19. Carrier Attachment		
20. Plate Pocket		
21 Butt Pack		
22 Utility Retainers		
23. Cargo Pocket		
24. Canteen Pouch		
25 Snaps		





Load Carriage Vest

Section B: Whole Item

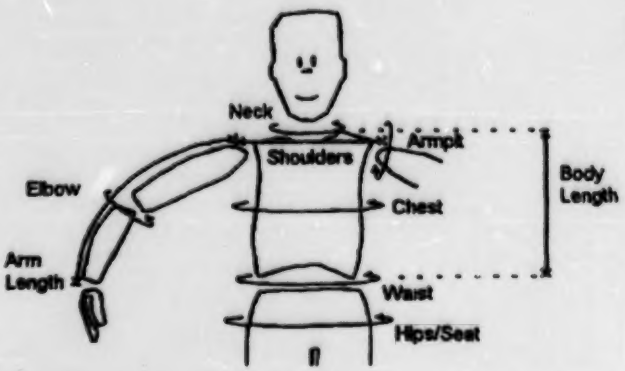
Activities	% unacceptable 25 50 75	Suitable for:	% unacceptable 25 50 75	Compatibility	% unacceptable 25 50 75
Neck Bending		Cold Weather		Undershirt	
Reaching		Cool Weather		Combat Shirt	
Throwing		Warm Weather		Combat jacket	
Trunk Bending		Hot Weather		Trousers, cbt	
Crouching		Snow		Helmet, M1	
Sitting		Rain		Parka	
Crawling		Wind		NBC garment	
Climbing		Ventilation		Webbing	
Marching		**Stowage**	% unacceptable 25 50 75	Weapons	
Running		In Webbing		Frag Vest	
Digging		In Vehicles		IECS jacket	
Skiing		Bulk			
Field Living		Weight			
Durability	% unacceptable 25 50 75	**Adjustment**	% unacceptable 25 50 75	**Other:**	% unacceptable 25 50 75
Tears		Put on		Colour	
Wear		Adjust fit		Noise	
Snagging		Take off		Smell	
Stitching				Layering	
Stains					
Care	% unacceptable 25 50 75	**Vehicles**	% unacceptable 25 50 75	**Comfort**	% unacceptable 25 50 75
Washing		Entry		Neck	
Drying		Exit		Shoulders	
Repairs		Operation		Chest	
Brushing		Maintenance		Armpits	
				Waist	

LCV-3

Load Carriage Vest

Section C: Fit

	% unacceptable 25	50	75	
Neck				
Shoulders				
Chest				
Waist				
Body Length				
Armpit				



Section D: Overall Ratings

	% unacceptable 25	50	75		% unacceptable 25	50	75		% unacceptable 25	50	75
Appearance				Function				Durability			

Section E: Size

Medium	Large
o	o

Section F: Replacement Items

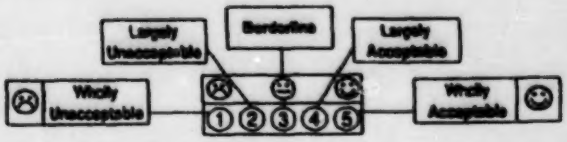
	Yes	No
Are you buying replacement items for this piece of kit?	o	o

Please provide the name brand or description of the replacement item:

Section G: Comments

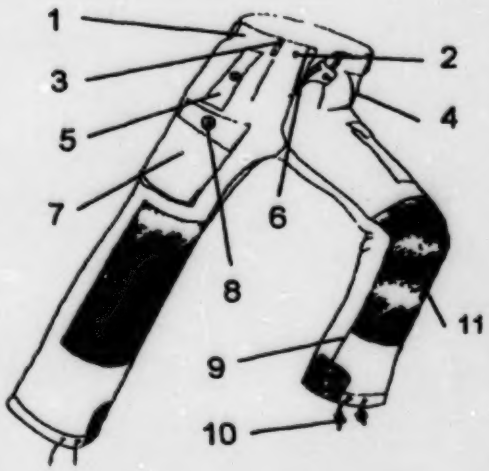
IECS Windpants

I have worn this garment:			
	n	%	
Never			Do not fill out this page
Occasionally	3	60	Go to Section A and Continue
Frequently	2	40	



Section A: Specific Features

	Function (works well) % unacceptable 25 50 75	Durability (wears well) % unacceptable 25 50 75
1. Side Elastic		
2. Waist Snap		
3. Belt Loops		
4 Side Pocket		
5. Side Pocket Flap		
6. Zipper		
7. Thigh Pockets		
8. Buttons		
9. All Seams		
10 Hem Drawcord		
11. Knee Protectors		



Section B: Whole Item

Activities	% unacceptable 25 50 75
Trunk Bending	
Crouching	
Sitting	
Crawling	
Climbing	
Marching	
Running	
Digging	
Skiing	
Field Living	
Standing	
Lying Prone	

Suitable for:	% unacceptable 25 50 75
Cold Weather	
Cool Weather	
Warm Weather	
Hot Weather	
Snow	
Rain	
Wind	
Stowage	% unacceptable 25 50 75
In webbing	
In vehicles	
Bulk	
Weight	

Compatibility	% unacceptable 25 50 75
Drawers, boxer	
Drawers, therm.	
Trousers, snow	
NBC IPE	
Socks, GS	
Socks, wool	
Boots, cbt	
Jacket, combat	
Parka	
Shirt, cbt	
Fleece Pants	

IECS Windpants

Section B: Whole Item (Continued)

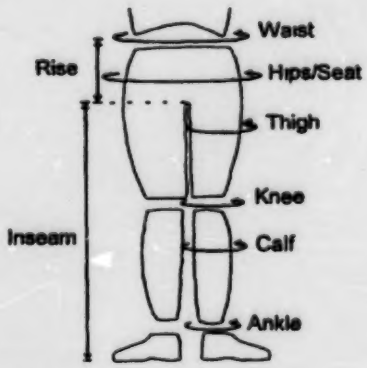
Durability	% unacceptable 25 50 75
Tears	
Wear	
Snagging	
Stitching	
Stains	
Material	
Care	
Washing	
Drying	
Repairs	
Brushing	

Adjustment	% unacceptable 25 50 75
Put on	
Adjust fit	
Take off	
Vehicles	
Entry	
Exit	
Operation	
Maintenance	

Other:	% unacceptable 25 50 75
Colour	
Noise	
Smell	
Layering	
Shrinkage	
Comfort	
Waist	
Crotch	
Thigh	
Ankle	
Material	

Section C: Fit

	% unacceptable 25 50 75
Waist	
Hips/Seat	
Rise	
Thighs	
Knees	
Calves	
Ankles	
Inseam	

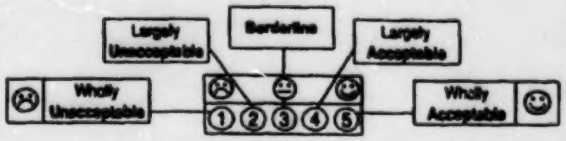


Section D: Overall Ratings

	% unacceptable 25 50 75		% unacceptable 25 50 75		% unacceptable 25 50 75
Appearance		Function		Durability	

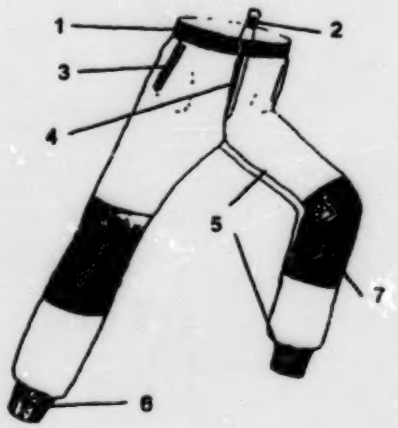
IECS Fleece Pants

I have worn this garment:			
	n	%	
Never			Do not fill out this page
Occasionally	3	75	Go to Section A and Continue
Frequently	1	25	



Section A: Specific Features

	Function (works well) % unacceptable 25 50 75	Durability (wears well) % unacceptable 25 50 75
1 Waist Elastic	■	
2 Waist Drawstring		
3 Side Pocket	■	■
4. Zipper		
5 Seams		
6 Ankle Elastic	■	
7 Knee Protectors		
8		
9.		
10		



Section B: Whole Item

Activities	% unacceptable 25 50 75	Suitable for:	% unacceptable 25 50 75	Compatibility	% unacceptable 25 50 75
Trunk Bending		Cold Weather		Trousers cbt	■
Crouching		Cool Weather		IECS Windpants	
Sitting		Warm Weather	■	Socks, GS	■
Crawling		Hot Weather	■	Socks, Wool	■
Climbing		Snow		Boot Liner	■
Marching		Rain		Boot cbt	■
Running		Wind		Drawers, Boxer	■
Digging				Drawers, CW	■
Skiing		**Stowage**	% unacceptable 25 50 75		
Field Living		In webbing			
Standing		In vehicles			
Lying Prone		Bulk			
		Weight			

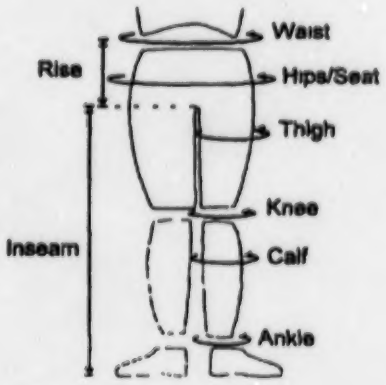
IECS Fleece Pants

Section B: Whole Item (Continued)

Durability	% unacceptable 25 50 75	Adjustment	% unacceptable 25 50 75	Other:	% unacceptable 25 50 75
Tears		Put on		Colour	
Wear		Take off		Noise	
Snagging				Smell	
Stitching				Layering	
Stains				Shrinkage	
Material					
Care	% unacceptable 25 50 75	**Vehicles**	% unacceptable 25 50 75	**Comfort**	% unacceptable 25 50 75
Washing		Entry		Waist	
Drying		Exit		Crotch	
Repairs		Operation		Thigh	
Brushing		Maintenance		Material	
Ironing				Ankle	

Section C: Fit

	% unacceptable 25 50 75
Waist	
Hips/Seat	
Rise	
Thighs	
Knees	
Calves	
Ankles	
Inseam	

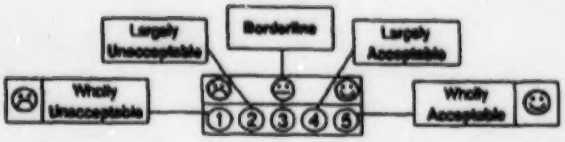


Section D: Overall Ratings

	% unacceptable 25 50 75		% unacceptable 25 50 75		% unacceptable 25 50 75
Appearance		**Function**		**Durability**	

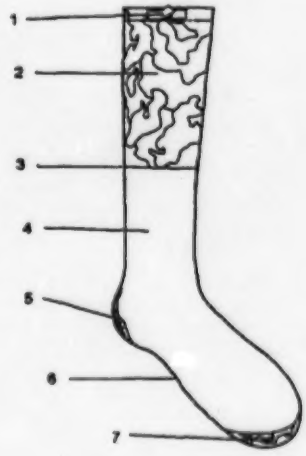
Socks, MVP

I have worn this garment:			
	n	%	
Never	2	4.2	Do not fill out this page
Occasionally	36	75.0	Go to Section A and Continue
Frequently	10	20.8	



Section A: Specific Features

	Function (works well) % unacceptable 25 50 75	Durability (wears well) % unacceptable 25 50 75
1. Velcro Tab		
2 Upper		
3. Seams		
4. Lower		
5. Heel		
6. Sole		
7 Toe		
8.		
9.		
10.		



Section B: Whole Item

Activities	% unacceptable 25 50 75	Suitable for:	% unacceptable 25 50 75	Compatibility	% unacceptable 25 50 75
Crawling		Cold Weather		Trousers, cbt	
Climbing		Cool Weather		Socks, wool	
Walking		Warm Weather		Socks, GS	
Running		Hot Weather		Overboots	
Digging		Snow		Drawers CW	
Marching		Rain		NBC IPE	
Field Living		Wind		NBC Overboots	
Standing		Mud/Slush		Combat Boots	
Lying Prone				IECS Windpants	
		Vehicles	% unacceptable 25 50 75		
		Entry/Exit			
		Operation			
		Maintenance			

Section B: Whole Item (Continued)

Durability	% unacceptable 25 50 75
Tears	
Wear	
Snagging	
Stitching	
Stains	

Care	% unacceptable 25 50 75
Washing	
Drying	
Repairs	

Adjustment	% unacceptable 25 50 75
Put on	
Adjust fit	
Take off	

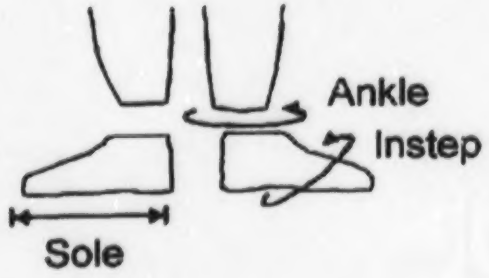
Stowage	% unacceptable 25 50 75
In Webbing	
Bulk	
Weight	

Other:	% unacceptable 25 50 75
Colour	
Noise	
Smell	

Comfort	% unacceptable 25 50 75
Flex	
Sole Feeling	
Cushioning	
Breaking In	

Section C: Fit

	% unacceptable 25 50 75
Calf	
Ankle	
Heel	
Instep	
Toes	
Width	
Sole length	
Sock height	



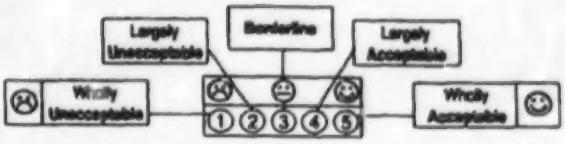
Section D: Overall Ratings

	% unacceptable 25 50 75		% unacceptable 25 50 75		% unacceptable 25 50 75
Appearance		Function		Durability	

S K G R - 1

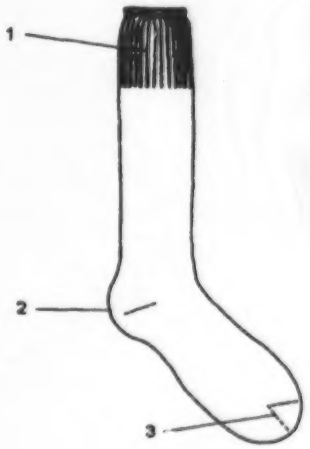
Gray Socks

I have worn this garment:			
	n	%	
Never	0	0.0	Do not fill out this page
Occasionally	13	26.0	Go to Section A and Continue
Frequently	37	74.0	



Section A: Specific Features

	Function (works well) % unacceptable 25 50 75	Durability (wears well) % unacceptable 25 50 75
1. Rib Top		
2. Heel		
3. Toe Seam		
4.		
5.		
6.		
7		
8.		
9		
10		



Section B: Whole Item

Activities % unacceptable 25 50 75	Suitable for: % unacceptable 25 50 75	Compatibility % unacceptable 25 50 75
Crawling	Cold Weather	Trousers, cbt
Climbing	Cool Weather	Boot Liner
Walking	Warm Weather	Overboots
Running	Hot Weather	Drawers CW
Digging		NBC IPE
Marching		NBC Overboots
Field Living		Combat boot
Standing		
Lying Prone		
	Vehicles % unacceptable 25 50 75	
	Entry/Exit	
	Operation	
	Maintenance	

S K G R - 2

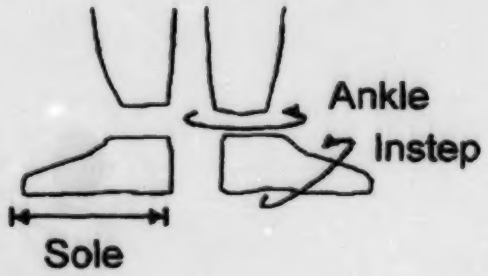
Gray Socks

Section B: Whole Item (Continued)

Durability	% unacceptable 25 50 75	Adjustment	% unacceptable 25 50 75	Other:	% unacceptable 25 50 75
Tears		Put on		Colour	
Wear		Adjust fit		Noise	
Snagging		Take off		Smell	
Stitching					
Stains					
		Stowage	% unacceptable 25 50 75	**Comfort**	% unacceptable 25 50 75
Care	% unacceptable 25 50 75	In Webbing		Flex	
Washing		In Vehicles		Sole Feeling	
Drying		Bulk		Cushioning	
Repairs		Weight			

Section C: Fit

	% unacceptable 25 50 75
Calf	
Ankle	
Heel	
Instep	
Toes	
Width	
Sole length	
Sock height	



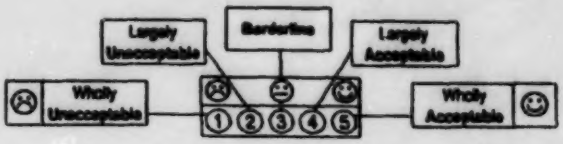
Section D: Overall Ratings

	% unacceptable 25 50 75		% unacceptable 25 50 75		% unacceptable 25 50 75
Appearance		Function		Durability	

BOOT - 1

Cold Wet Weather Boot

I have worn this garment:			
	n	%	
Never	0	0.0	Do not fill out this page
Occasionally	4	50 0	Go to Section A
Frequently	4	50.0	and Continue



Section A: Specific Features

	Function (works well) % unacceptable 25 50 75	Durability (wears well) % unacceptable 25 50 75
1. Calf Padding		
2 Pull Assist		
3. Upper		
4. Heel		
5 Sole		
6. Tongue		
7 Eyelet lace system		
8. Laces		
9. Toe Cap		
10. Seams		

Section B: Whole Item

Activities	% unacceptable 25 50 75	Suitable for:	% unacceptable 25 50 75	Compatibility	% unacceptable 25 50 75
Crawling		Cold Weather		Trousers, cbt	
Climbing		Cool Weather		Socks, wool	
Walking		Warm Weather		Socks GS	
Running		Hot Weather		Boot Liner	
Digging		Snow		Overboots	
Marching		Rain		Drawers CW	
Field Living		Ice		NBC IPE	
Standing		Sand		NBC Overboots	
Lying Prone		Mud/Slush		IECS Windpants	
Traction Wet		**Vehicles**	% unacceptable 25 50 75	Snowshoes	
Traction Dry		Entry/Exit		Skis	
		Operation			
		Maintenance			

BOOT - 2

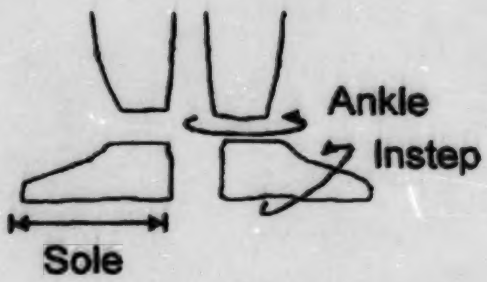
Cold Wet Weather Boot

Section B: Whole Item (Continued)

Durability	% unacceptable 25 50 75	Adjustment	% unacceptable 25 50 75	Other:	% unacceptable 25 50 75
Tears		Put on		Colour	
Wear		Adjust fit		Noise	
Snagging		Take off		Smell	
Stitching					
Stains					
Leather		Stowage	% unacceptable 25 50 75		
Shine		In Webbing		Comfort	% unacceptable 25 50 75
Care	% unacceptable 25 50 75	In Vehicles		Flex	
Washing		Bulk		Sole Feeling	
Drying		Weight		Cushioning	
Repairs				Breaking In	
Brushing				Warm	
				Dry	

Section C: Fit

	% unacceptable 25 50 75
Calf	
Ankle	
Heel	
Instep	
Toes	
Width	
Sole length	
Boot height	



Section D: Overall Ratings

	% unacceptable 25 50 75		% unacceptable 25 50 75		% unacceptable 25 50 75
Appearance		Function		Durability	

ANNEX E

ACCESS Focus Group Results

CWWB Focus Group Comments

Focus group comments, from about forty infantry soldiers (1PPCLI, C and D Coys), are summarized below for current boot usage, deficiencies with the in-service boot system in cold, wet weather, and requirements and additional design features for a new cold wet weather boot (CWWB).

Current Boot Usage

The in-service boot system consists of an all leather, general purpose boot (Mk III), a rubber overboot for wet weather, and mukluks for extreme cold. Socks are also integral to the warmth, dryness and comfort of the boot system. Soldiers are issued grey wool socks for general use and moisture vapour permeable (MVP) socks for wet weather.

In temperate wet weather, participants indicated that their feet tended to get wet and stay wet. Once wet their only recourse was to change into dry socks and continue to wear wet boots or, if they were operating out of an APC or base camp, they would change into a second pair of MK III boots at the end of the day. In cool, wet weather (+5°C to 0°C), participants indicated that they would don their socks MVP, typically in combination with a grey wool sock for insulation. Participants reported that they would typically wear their Mk III boots down to temperatures of 0°C to -5°C before they would transition to their mukluks.

Almost all participants indicated that they were reluctant to don their rubber overboots in the field. The overboots were considered heavy (increasing the weight on each foot from about 2 lbs to 4 lbs), clumsy, and provided poor traction on wet weather terrain (e.g. mud and slush).

Most participants (75%) reported having purchased their own civilian cold wet weather boots to cope with the deficiencies in the in-service boot system between the temperatures of +10°C and -10°C, and in the wet. Participants reported purchasing boots with Thinsulate insulation and Gortex MVP liners (typically the Danner boot). The few participants (25%) who had not purchased civilian boots indicated that they would do so as soon as they could afford the additional personal expense. All participants indicated that they purchased civilian socks with better insulation, cushioning, and moisture wicking than the in-service grey socks.

Deficiencies:

The following deficiencies were reported for the in-service MK III boot for cold wet weather.

- While boot fit when issued was acceptable, many participants reported that the boots stretched with wear, especially when wet.
- The MK III boot provides little if any protection against wet weather. Although the MVP sock keeps the feet dry, it provides very little insulation. In the cold and wet, the MK III boot and the grey sock (worn under the MVP sock) tend to get wet. Both are slow to dry and contribute significantly to the weight of the boot.

- The MK III boot alone is not insulated and the leather upper material conducts cold to the feet. Even when wearing two pairs of grey socks, participants indicated that their feet quickly became cold in temperatures below +5°C.
- The sole of the MK III boot is not durable. Most participants indicated that the tread on the sole wore flat very quickly, resulting in poor traction and instability.
- The sole provides poor cushioning during walking and marching, and prolonged standing. Poor cushioning leads to discomfort, foot fatigue and can contribute to foot disorders and injury.
- When new, the boot is uncomfortable and contributes to blistering and discomfort during initial wear. While the boots do become comfortable with wear, the breaking-in period is too prolonged (reportedly 1 - 2 months). Most participants indicated that, by the time the boots were broken in, the soles had worn out. Participants with civilian CWW boots noted that they tended to require no longer than five days to break them in and the levels of discomfort associated with the breaking-in period were minimal.
- The in-service boot is considered heavy.
- The leather upper and rubber sole breaks down in the presence of POL materials.

Requirements

1. **Protection:**
   a) Wet: Waterproof boots are essential. Once wet, the boots must dry quickly. Participants preferred an MVP layer for the waterproof barrier to be able to vent sweat vapour generated by the feet during activity. All participants indicated that, while wearing their commercial CWW boots, their feet would still get sweaty during moderate to high activity, but not to unacceptable levels.
   b) Cold: The boot should provide sufficient insulation to maintain thermal comfort in the temperature range of +10°C to -10°C, for prolonged periods of inactivity.
2. **Camouflage:**
   a) Colour: When asked, participants indicated that they preferred black. When pressed, participants cited tradition rather than function or camouflage for their colour choice.
3. **Compatibility:**
   a) Equipment: Typical cold weather, boot-related equipment included snowshoes, skis, and vehicle foot pedals.
   b) Clothing: Participants noted that pants and socks were the most critical clothing items for boot compatibility. Pants included thermal underpants, blousing cuffs on combat pants, and the size of the windpant cuff when donning them over the boots. Socks included both thermal and MVP socks.

4. **Fit:**

   a) Participants indicated that boots must fit both foot size and shape as closely as possible, otherwise contact sores and foot instability could result. Apart from providing a large number of sizes to achieve a close fit, participants also emphasized the need for removable, molded, cushioned insoles. Removable insoles can increase the useful life of a boot through insole replacement and can allow for faster drying of both the boot and insole. A molded insole can provide both a better shape fit to improve foot support and reduce the amount of unnecessary foot movement during ambulation which contributes to contact sores. Additional foot cushioning afforded by insoles can reduce impact forces during marching and running, and thereby reduce the risk of foot injury.

5. **Adjustability:**

   a) Participants indicated that any new boot must provide sufficient adjustability to accommodate the range of possible soldier foot, ankle and calf sizes.

   b) Some participants (15%) advocated a toe lacing design as a means of providing adjustability over a greater proportion of the foot than conventional lacing. These participants also noted that toe lacing provided a means of adjustment to counteract the natural stretching tendency of leather in the toe box region of the foot. Unfortunately, very few participants in this focus group had any experience with toe lacing and, as such, most were unable to comment.

6. **Field Cleaning and Repair:**

   a) Participants indicated that, generally, boots are neither cleaned nor repaired in the field. Exceptions include appearance on U.N. duty and replacing damaged laces.

7. **Static Electricity:**

   a) Participants did not perceive a static electricity hazard in their job.

8. **Flammability:**

   a) Participants did not consider flame resistance a high priority and would be satisfied if the boots had the same flammability characteristics as their in-service MK III boot.

9. **Material Resistance:**

   a) Exposure to POL, DEET, naphtha , sweat or salt water should not result in a loss of material durability, colour, shape, or water resistance.

10. **Weight:**

    a) The new CWW boot must be lighter than the current MK III boot.

11. **Stability:**

    a) The boot must provide lateral stability support to the foot and ankle, to a level equal to or better than the MK III boot.

12. Range of Motion:

a) The wearer must be able to achieve sufficient range of motion in ankle and foot flexion and extension so as to not impede performance during running, climbing, rappelling, and crawling activities.

Additional Design Features

The following design features were most preferred, by participants, for a new cold, wet weather boot.

- Sole: The boot sole must provide a tread pattern which provides traction on all likely cold, wet terrain surfaces (e.g. asphalt, gravel, sand, snow, mud, rocky ground, icy ground). The sole tread must not collect materials (e.g. mud, snow) to the extent that traction is reduced.

  The sole must provide cushioned resiliency to reduce contact forces and dissipate foot impact during marching and running. The sole must be durable and resist material degradation from POL.

- Lacing: The lacing system must enable a soldier to quickly, easily and accurately adjust the fit of the boot. Focus group participants were divided on the need for speed lacing. Proponents (50%) suggested that speed lacing enables a wearer to don and adjust their boots faster than conventional lacing. These participants suggested that speed would be useful during emergency bug-out situations and would enable a soldier to perform more frequent foot maintenance. The dissenting participants (50%) did not agree that there were likely situations when high speed lacing was required; suggesting instead that, for bug-out situations they would just pull their boots on, bug out, and adjust them later. These participants did agree, however, that boot performance and their acceptance of a boot would not be adversely affected by the presence of speed lacing.

  All participants agreed that, if speed lacing were provided, they would prefer D-rings to open hooks. Open hooks were seen to be a snagging and durability problem.

- Calf Height: Most participants (85%) preferred to remain with a mid-calf height boot similar to the MK III. A higher boot was seen as problematic for accommodating calf fit and a shorter boot was perceived as providing less ankle stability and may allow more water infiltration at the top of the boot.

- Foot Flexion: Foot flexion during normal gait can cause the laced front of the boot to bunch and bind, causing point pressure discomfort at the top of the foot. Participants requested that any new CWW boot include a cut-out in the front of the boot to enable foot flexion without bunching.

- Pull Tabs: Several designs provide a loop or tab at the back to assist the wearer when pulling on their boot. Most participants considered this feature unnecessary.

- Calf Padding: Some boots provide padding around the top rim of the boot to reduce contact pressure at the calf. This feature was also considered unnecessary.

CWWG Focus Group Comments

Focus group comments, from about forty infantry soldiers (1PPCLI, C and D Coys), are summarized below for current glove usage, deficiencies with the in-service glove system in cold weather weather, and requirements and design characteristics for a new cold wet weather glove (CWWG) system.

Current Glove Usage

The in-service glove system consists of a cotton inner glove and a leather outer; the gloves can be worn together or separately. Participants reported that they would typically don their cotton gloves at temperatures of +5°C to + 10°C, depending on windchill and rain effects. Leather gloves were only donned for tasks involving abrasion (e.g. wire laying, vehicle repairs). Participants preferred not to don their leather gloves in cold weather, unless absolutely necessary, since the leather material acted as a heat sink by cooling the hand faster. When temperatures dropped to about -20°C, participants chose to don their arctic mitts. Participants indicated that they were often reluctant to transition to mitts because the functionality of their hands became greatly reduced.

All participants reported having purchased their own civilian cold wet weather gloves to cope with the deficiencies in the in-service glove system between the temperatures of +5°C and -20°C, and in the wet. Participants reported purchasing gloves with Thinsulate insulation and Gortex MVP liners.

Deficiencies:

The following deficiencies were reported for the in-service glove system for cold wet weather.

- The fit of the leather outer was poor. The leather glove, when new, tended to be too large in the fingers and palm. During use, the leather glove stretched and deformed, making the fit even looser.
- Neither glove provided any protection against wet weather. Once the leather outer became wet it was slow to dry. After the glove was dried it became quite stiff.
- The gloves provided limited protection from the cold. All participants reported that the in-service gloves were unacceptable below 0°C.
- Durability of both the cotton inner and the leather outer were considered poor.
- Dexterity of both gloves was reportedly unacceptable. Most participants indicated that grasping and manipulation of small object was difficult and unpredictable. In most cases, the leather glove would be removed to perform any dexterous tasks.
- Tactility with the in-service gloves was poor, especially with the leather outer glove. Participants indicated the part of the problem with the leather glove was the simplistic, two panel construction of the thumb and fingers. Such construction provided a very poor representation of finger and thumb shape.

Requirements

1. **Protection:**
   a) Wet: Waterproof gloves are essential. Participants preferred an MVP layer for the waterproof barrier to be able to vent sweat vapour generated by the hands during work. All participants indicated that, while wearing their commercial Gortex gloves, their hands would still get sweaty during hand work but not to unacceptable levels.
   b) Cold: The gloves should provide sufficient insulation to maintain thermal comfort in the temperature range of +5°C to -20°C.
2. **Camouflage:**
   a) Colour: When asked, participants indicated that they preferred black. When pressed, participants cited tradition rather than function or camouflage for their colour choice. Some (35%) indicated that the Cdn DPM or olive drab might be more appropriate from a camouflage standpoint.
   b) IRR: The IR reflectance of the gloves should be the same as the combat clothing.
3. **Compatibility:**
   a) Weapons: While wearing the CWW gloves, the soldier must be able to effectively perform weapon handling and firing drills for small arms (e.g. C7, C6, C9), anti-armour weapons (e.g. M72, Carl Gustav, TOW) and the 81mm mortar. Participants did not expect to perform very fine manipulative tasks (e.g. weapon stripping and cleaning) while wearing gloves.
   b) Equipment: Typical cold weather equipment handling tasks included tent construction, lantern and stove filling and operation, vehicle controls, and tools (e.g. wire cutters, multi-tool, pick and shovel).
   c) Pockets/Fasteners: Soldiers must be capable of accessing cargo pockets, rucksack bags, magazine pockets, and separate clothing layers. Any new CWW glove must enable soldiers to manipulate jacket and parka zippers, pocket buttons, flaps, straps, buckles, and snaps.
   d) Jackets/Parkas: Participants noted that the interface between the sleeve cuff of a jacket and the glove is critical to maintaining thermal comfort and waterproofing. Gaps or a poor seal between the sleeve cuff and glove could expose the underlying skin to the cold and enable snow and rain to seep into the glove or migrate into the glove through the liner.
4. **Fit:**
   a) Participants indicated that gloves must fit each individual hand size and shape as closely as possible, otherwise dexterity and tactility will suffer. Apart from providing a large number of sizes to achieve a close fit, participants also emphasized cut of materials and construction methods to achieve a better shape fit and facilitate digit flexion.

5. **Field Cleaning and Repair:**
   a) Participants indicated that gloves are neither cleaned nor repaired in the field. Gloves with excessive wear, damage or staining are simply replaced.
6. **Static Electricity:**
   a) Participants did not perceive a static electricity hazard in their job.
7. **Flammability:**
   a) Participants did not consider flame resistance a high priority and would be satisfied if the glove had the same flammability characteristics as their combat clothing.
8. **Material Resistance:**
   a) Exposure to POL, DEET, naphtha , sweat or cam stick should not result in a loss of material durability, colour, shape, or water resistance.

Design Characteristics

The following design characteristics were most preferred, by participants, for a new cold, wet weather glove.

- Two Glove System: Participants did not wish to acquire a new CWW glove at the expense of the functionality and additional range of climatic protection afforded by the current two glove (inner and outer) system. A light contact glove was still required to overlap and exceed the upper range of climatic protection afforded by a CWW glove (i.e. 0°C to +10°C).
- Materials (Contact Surface): For the contact surfaces of the palm and palmar aspects of the fingers, participants preferred a synthetic material to leather. The synthetic material should provide good gripping contact and be very durable (examples included snowboarding and skiing gloves). Concerns with leather included stiffness when cold and after drying, conductance of cold to the hand, water absorption, and stretching with use.
- Materials (Non-contact Surface): For the non-contact surfaces of the dorsal aspects of the hand and fingers, participants preferred a synthetic material which sheds snow and rain, and is non-absorbant.
- Cuff Size: All participants preferred a CWW glove with a gauntlet style of cuff; the German CWW glove sample was well liked for this feature. Coverage should extend to about mid-forearm, be capable being adjusted to accommodate the sleeve of the combat jacket and parka, and include a method of closure to prevent snow and rain from entering between the sleeve and cuff. Participants indicated that the gauntlet portion of the glove should be waterproof but not insulated over the jacket sleeve. By removing insulation from the gauntlet portion, the glove would be less bulky and restrict wrist movement less, while still providing a watertight interface with the underlying sleeve.

- Liner: The glove liner should be comfortable next to the skin and quick drying. The liner should not retain moisture and should be secured inside the glove. Participants did not want a liner which could be pulled out of the glove, because these liners tended to bunch up inside the glove and move independently of the outer contact surface of the glove.
- Fasteners: A method of securing the fit of the wrist and sealing the opening of the gauntlet end of the glove to the sleeve must be provided. Most participants (65%) would be satisfied with a velcro strap at both the wrist and the gauntlet end. Several participants (35%), however, were opposed to velcro for reasons of noise and preferred a cloth strap and metal buckle securement method.
- Wrist Clasps: Participants requested a means of attaching the gloves together to reduce the likelihood of losing a glove and to provide an easy means of hanging the gloves to dry. Clasps should be small, durable, and unlikely to snag on clothing and equipment.

Combat Cap Focus Group Comments

Focus group comments, from about forty infantry soldiers (1PPCLI, C and D Coys), are summarized below for deficiencies with the in-service combat cap, current usage, and requirements and design characteristics for a new combat cap.

Deficiencies:

The following deficiencies were reported for the in-service combat cap.

- Difficult to get a good fit without having the cap brim obstruct forward and peripheral vision. Most participants indicated that cap fit was poor.
- The appearance of the cap was considered inappropriate for a modern, professional soldier. Most participants indicated they were embarrassed to wear the cap in the presence of soldiers from other nations.
- The cap is neither waterproof or water repellent and, once wet, the cap is slow to dry.
- Compatibility problems arise with cap fit when wearing the combat cap with CVC communications headset.
- Insufficient protection is provided for sun and rain. In both cases, the face, ears and neck remain exposed.
- No method of securement to the head is provided with the current cap. Participants reported problems with the cap getting knocked off their head by branches, vehicle hatches, and sudden movements, and getting blown off in a stiff wind.
- The brim flap at the sides and back of the in-service hat cannot be worn in the down position without compromising hearing ability.
- Camouflage afforded by the cap is poor. No method of scrim attachment is provided and the cap alone provides a distinctive silhouette for enemy detection.
- The cap is too warm during hot weather.
- Cat eyes are not provided with the in-service cap and must be added by soldiers after issue.

Current Usage

All participants indicated that it was mandatory to wear their combat cap in the field, when not wearing their helmet. The cap is typically carried on their person at all times, stowed in the cargo pocket of their combat trousers or the butt pack of their webbing.

Requirements

1. **Protection:**
   a) Solar: Provide sufficient brim coverage to ensure the neck, ears and face are protected.
   b) Rain: Provide sufficient brim coverage to ensure the neck, ears and face are protected. Ensure that brim run-off sheds water clear of the shirt or jacket collar. Once wet, the cap must dry quickly (1-2 hours would be acceptable).
   c) Thermal: The cap must be constructed of a light, breathable fabric and include ventilation holes to reduce thermal load in hot weather. Participants did not require the cap to keep their head warm in cool weather and chose not to deploy any type of ear flap for warmth due to the resultant loss in hearing ability.
2. **Camouflage:**
   a) Scrim: Scrim attachment loops are required around the perimeter of the cap head band. Loops should be sewn through and constructed of an elastic material to improve the retention of scrim materials.
   b) Colour: Whether monochrome OG-107 or Cdn DPM, participants preferred the cap match the colour of their combat clothing. During U.N. peacekeeping duty, most participants (80%) indicated that the cap should be provided in U.N. blue.
3. **Weight:**
   a) The combat cap must be lighter in weight than the in-service cap and should not retain water nor gain noticeable weight when wet.
4. **Compatibility:**
   a) Weapons: The combat cap must not reduce weapon handling and firing effectiveness (speed or accuracy) for small arms (e.g. C7, C6, C9), anti-armour weapons (e.g. M72, Carl Gustav, TOW) and the 81mm mortar.
   b) Communications Devices: The combat cap must be capable of being worn with all field communications headsets and not interfere with the fit of either the cap or the headsets.
   c) Vision Devices: The cap must not obstruct the use of all field vision devices (e.g. M22 binoculars, combat spectacles, NVG, NODLR, PVS 504).
   d) Headwear: Participants indicated that they did not wear any other headwear or hoods with the combat cap, with the exception of a sweat band during hot, humid weather.
5. **Field Cleaning:**
   a) Participants indicated that combat caps are not cleaned in the field, but must be launderable in garrison.
6. **Field Repair:**
   a) A soldier in the field must be able to affect minor repairs, such as sewing small rips and tears.

7. **Static Electricity:**
    a) Participants did not perceive a static electricity hazard in their job.
8. **Flotation:**
    a) While seen as a low priority requirement, participants indicated that a combat cap capable of floating could be useful.
9. **Flammability:**
    a) Participants did not consider flame resistance a high priority and would be satisfied if the cap had the same flammability characteristics as their combat clothing.
10. **Material Resistance:**
    a) Exposure to POL, DEET, sun screen or cam stick should not result in a loss of material durability, colour, shape, or water resistance.

Design Characteristics

The following design characteristics were most preferred, by participants, for a new combat cap.

- Brim: All participants preferred a flat (horizontal), semi-stiff brim situated all around the circumference of the hat band. Most participants cited the Tilley hat design as an exemplar.
- Brim Securement: Most participants did not see a need for being able to snap one or both sides of the brim to the side of the hat.
- Securement Strap: A tie-string, with a retainer device (e.g. toggle or clip) must be provided to enable a soldier to secure the cap to the head.
- Materials: The fabric must be light-weight and permeable, but repel water. Next-to-skin surfaces must be comfortable, non-irritating, and absorb or wick sweat away from the skin. The materials must be capable of being rolled and folded for pocket stowage, and then quickly regain its shape when removed for use.
- Ventilation Holes: Ventilation holes are required to reduce heat build-up in the top of the hat. Holes should be screened to prevent access by insects.
- Luminescent Reflectors: Cat or Ranger Eyes should be secured to the headband at the back of the hat. The reflectors should be reversible or include a flap cover.

Load Carriage Focus Group Comments

Focus group comments, from forty infantry soldiers (1PPCLI, C and D Coys), are summarized below for deficiencies with the in-service load order, current usage, and system requirements and design characteristics for a new load carriage system.

1. In-service Load Carriage System

The in-service load carriage system was reviewed in terms of load order (fighting, battle, and marching orders), supplementary load carriage kit (IPE bag), and deficiencies with the webbing and 82 Pattern rucksack.

1.1 Load Order:

The in-service load carriage system comprises three load orders which are designed to provide increasing levels of sustainability to support longer mission requirements in the field. Focus group participants indicated that, in the field, fighting order was largely indistinguishable from battle order since soldiers would always carry a butt pack in the field. Participants reported that fighting and battle order were often supplemented by additional load carriage bags.

1.2 Supplementary Load Carriage:

Participants indicated that the IPE bag was commonly used to supplement the capacity of the load carriage system; often to redress the storage shortcomings with fighting and battle order webbing. The IPE bag was typically emptied of NBC kit and used to carry grenades and ammunition. While all participants indicated that they used their IPE bag in this way, the Regiment has since stopped issuing the bag.

1.3 Deficiencies with Current System:

The following deficiencies were reported for the in-service webbing, rucksack, and the webbing/rucksack combined system.

1.3.1 Webbing

- Weight distribution around the webbing is unbalanced, with most of the weight positioned to the back.
- Webbing belt component attachments are awkward and time-consuming when adding webbing items, and the plastic attachment hooks frequently break. Webbing belt grommets often tear loose.
- Insufficient storage or attachment space is provided for grenades and ammunition.
- The webbing concept positions all of the bulky stowage items circumferentially around the hips. Participants indicated that this bulk around their hips made access to

narrow openings difficult (e.g. vehicle hatches, mouse holes) and increased the likelihood of snagging.

- The hip belt loosens with use and must be frequently re-adjusted.

1.3.2 Rucksack

- Load weight was poorly distributed with the 82 Pattern rucksack, with a disproportionate amount of the load being borne by the hips.
- The external rucksack frame tended by bend and flex easily under load. This lack of rigidity resulted in a perception of load instability.
- The wire frame broke easily under general use.
- The frame generated noise under load (e.g. creaking).
- The fixed frame length tended to be too long for soldiers of average or short stature. The longer frame resulted in problems in using the hip belt for load distribution and the valise tended to knock into the backs of the legs during marching.
- The shoulder harness point of attachment at the rucksack frame was too narrow behind the neck. This resulted in the straps pulling the shoulders sharply medially and back, causing shoulder fatigue and discomfort. All participants reported shoulder discomfort with the 82 Pattern rucksack. Many participants also indicated that the narrow harness attachment also caused neck and upper back discomfort.
- The longitudinal concave shape of the rucksack frame tended to move the load away from the back creating greater load stress. All participants reported lower back discomfort when using the 82 Pattern rucksack.
- The lateral concave shape of the rucksack frame generate contact point discomfort in soldiers with a wide back.
- The plastic buckles tended to be brittle in the cold. The hip belt buckle tended to release unexpectedly when placed under tension.
- Adjustment straps were difficult to use and tended to break easily.
- The rucksack frame and hip belt provided insufficient padding, and the padding location could not be adjusted to suit individual dimensions and preferences.
- The 82 Pattern rucksack situates the valise at the bottom of the frame. All participants indicated that placing the bulk of the weight in this location pulled back on their shoulders, made load carriage more demanding, and increased the speed of onset and the severity of shoulder and low back discomfort.

1.3.3 Webbing/Rucksack System

Generally, participants indicated that the webbing and rucksack components were incompatible in the following ways.

- The shoulder straps for both the webbing and the rucksack compete for space at the shoulders and chest. This results in the straps sliding to the edge of the shoulders, causing significant shoulder fatigue and discomfort.
- The position of the webbing butt packs clashes with the rucksack frame. This places additional load on the hips from the rucksack pressing down on the butt pack or shifts the position of the rucksack further away from the hips and redistributes most of the load forces at the shoulders.
- The transition between fighting or battle order and marching order requires the soldier to undertake a number of time consuming webbing adjustments. Failure to make these adjustments results in poor rucksack positioning and accelerates the onset of the compatibility concerns already identified.

1.4 Current Usage of the In-service System

Webbing is worn as part of normal field dress and, as such, is worn often and for long periods. Rucksack use is typically limited to 1-2 times per week, with bouts of continuous, prolonged use during select field exercises. In marching order, webbing is worn underneath the rucksack and never slung on top of the rucksack.

Most participants indicated that they chose not to use the 82 Pattern rucksack frame; most participants (80%) chose to use the 64 Pattern frame instead. The 64 Pattern frame was preferred for its rigidity and shorter length. As well, all participants indicated that they preferred to locate their valise at the top of the rucksack; the reverse of the 82 Pattern configuration.

2. New System Requirements

Participants were given the opportunity to review, handle and wear four other load carriage systems, as a basis for discussion about soldier preferences for a new load carriage system for the CF. The following four systems were reviewed.

British System: comprising the British webbing and an internal frame rucksack. The British bergen included a capability for modularized bags or compartments.

Australian System: comprising the Australian webbing and an internal frame rucksack.

Danish Load Carriage Vest: a mesh-backed vest with load carriage pockets distributed across the front and sides of the vest.

Prototype Canadian System: comprising the CF load carriage vest and the DACME packboard/rucksack.

Following this review, almost all participants (> 90%) indicated that they preferred a load carriage vest (LCV) system with an external frame packboard/rucksack for the following reasons.

- An LCV design would enable the load to be distributed more evenly over the torso, thereby reducing bulk and allowing easier access to confined spaces.
- Access to load carriage items would be faster and easier with an LCV.
- A more personalized fit could be achieved with the combined LCV and rucksack/packboard system with less compatibility clash.
- A packboard/rucksack provides greater mission flexibility and enables the soldier to perform a wider range of load carriage tasks.
- An external rucksack frame would enable easier attachment of additional kit items and would be easier to adjust for a personalized fit.

Design features, requested by participants, for each of the LCV and packboard/rucksack are described separately below.

2.1 Load Carriage Vest

- All participants indicated that they did not want ballistic protection integral to the LCV. Separate fragmentation and load carriage vests provide modularity to enable the soldier to configure their kit to match task, threat and mission demands. For example, digging in a defensive position would require a soldier to wear fragmentation protection but would not require the soldier to wear their load carriage. By removing their LCV, soldiers could selectively improve digging performance and comfort without compromising ballistic protection.
- Similarly, participants did not want a hard armour capability in their LCV. Participants preferred that ballistic protection (soft and hard armour) be provided by a separate garment.
- The LCV should be constructed with a mesh backing to facilitate ventilation and reduce thermal demands.
- Load carriage pouches and pockets should only be provided at the front and sides of the torso, leaving the back of the torso clear. By eliminating pockets and pouches from the back of the LCV, compatibility clash with a rucksack, vehicle seats, etc. would be eliminated or greatly reduced.
- The location and orientation of magazine pouches, storage pockets, and attachment points should be user configurable.
- A separate battle pack, similar to the current IPE bag, should be provided. The pack could include shoulder straps for wear as a backpack, but these straps could clash with storage pockets and attachment points in the chest area of the LCV. Alternatively, a supplementary patrol or battle pack could be secured to the LCV using quick-release attachments (e.g. fastex clips). The supplementary pack could then be easily attached to

the outside of the rucksack, using the same attachment points, when the soldier transitions to marching order.

2.2 Rucksack/Packboard

- The rucksack should have an stiff external frame which resists flexing or bowing. While participants preferred the 64 Pattern frame many did not feel the frame was rigid enough.
- Adjustability of rucksack features, to achieve an individualized fit, was judged to be critical. Participants requested that the shoulder strap harness, hip belt harness, and lumbar/torso padding all be adjustable to enable a soldier to achieve the best load distribution on the body and the most comfortable fit.
- The location and orientation of the valise, sleeping bag, other kit bags and items of equipment must be user configurable on the rucksack frame to enable a soldier to accommodate task and mission requirements, as well as personal preferences. The rucksack frame should enable the soldier to quickly and easily attach and detach items.
- The rucksack frame must enable soldiers to quickly re-configure their load carriage system to accommodate unique items of equipment and materiel (e.g. water cans, boxes of food, cases of ammunition, ERYX missles and firing platform). Participants preferred the DACME packboard concept based on their perception that it might achieve this requirement. Participants also noted that, to be effective as a packboard, attachment straps would need to be included.
- The bags, main pockets, and sleeping bag should all be part of a modular system which enables the soldier to build up their load to match the specific operational and environmental requirements for their mission. In this way, superfluous baggage could be eliminated, reducing bulk and weight for both vehicle stowage and personal carriage. Participants favoured the zippered main pocket attachment method offered by the British bergen.

  The British concept of a large, main bag for both their kit and sleeping bag, however, was considered unacceptable. Participants noted that the main bag would be much too large when not carrying a sleeping bag. When packing or unpacking the sleeping bag in camp all kit items would need to be removed, resulting in annoying delays.
- Sufficient padding is required at the shoulder straps, contact surfaces of the upper torso, lumbar region of the spine, and around the hip belt. While participants were only able to wear the DACME rucksack for brief periods, most reported that the padding was a vast improvement over the 82 and 64 Pattern rucksacks.

2.3 Other Design Characteristics

The following design characteristics are applicable to both the LCV and rucksack.

- Camouflage: All participants indicated that the LCV, rucksack/packboard frame, and bags should match the visual and IR camouflage afforded by the combat clothing. In this regard, participants would be satisfied with both a monochrome OG-107 or the new CF DPM.
- Fasteners: Buckles and attachment points need to be a quick-release design capable of being operated with a gloved hand. Participants were dubious about the durability of plastic buckles during extreme cold, and many suggested metal buckles as an alternative.
- Waterproofing: All bags and pockets in both the LCV and rucksack must be waterproof and include drain holes.

Underwear Focus Group Comments

Focus group comments, from about forty infantry soldiers (1PPCLI, C and D Coys), are summarized below for current underwear usage, deficiencies with the in-service underwear system, and requirements and additional design features for new general issue underpants, and thermal top and thermal pants. Focus group discussion did not include the t-shirt.

Current Underwear Usage

The in-service underwear system comprises both a temperate layer (t-shirt and boxer short) and a thermal layer (top and pants). Very few soldiers (5%) wore the in-service boxer short, preferring instead to wear civilian alternatives. Many participants did wear the thermal underwear to some extent, although most preferred to wear civilian thermal underwear.

Deficiencies:

The following deficiencies were reported for each of the in-service boxer short, and thermal top and pants.

Boxer Short:

- The cut of the short was much too loose and provided no support in the crotch area. The short tended to ride up with wear.
- The material was irritating next to the skin, had poor vapour permeability, and became damp and clammy during moderate exertion.
- Moderate activity (particularly marching) resulted in chaffing in the crotch and inside thighs.

Thermal Top:

- The thermal top does not dissipate excess heat and sweat vapour. As a result, the thermal top quickly becomes wet and tends to be very slow to dry.
- Most participants (90%) indicated that the length of the top was too short, providing insufficient overlap with the thermal pants. Many suggested that the short length was the result of excessive shrinkage during initial laundering.
- Several participants noted that the top bunches up with wear and the elasticized wrist cuffs tended to stretch out of shape, no longer providing a suitable thermal seal.

Thermal Pant:

- Similar to the thermal top, the thermal pant does not dissipate excess heat and sweat vapour, and once wet it tends to be very slow to dry.
- Both the elasticized waistband and ankle cuffs tend to stretch with use resulting in a poor fit at the waist and a poor thermal seal at the ankle.

- Most participants were dissatisfied with the baggy fit in the crotch and a few participants (15%) reported skin irritation from the fabric.

Requirements

1. **Protection:**
   a) Wet: Underwear fabric should wick sweat and moisture away from the skin. Once wet, the underwear must dry quickly.
   b) Cold: For the thermal underwear, participants preferred only light-weight protection from the cold. Light-weight protection enables soldiers to more effectively control their thermal comfort, and accommodate to changes in activity levels and climate, by utilizing the layering opportunities afforded by the IECS system.
2. **Camouflage:**
   a) Colour: Undergarments should be provided in a moderately dark colour. All participants would be generally satisfied with olive drab, and some suggested that the new Cdn DPM would be appropriate.
3. **Compatibility:**
   a) Clothing: Undergarments must be compatible with both combat clothing and with the fleece and MVP layers of the IECS ensemble. Ankle and wrist cuffs must not interfere with footwear and handwear compatibility and fit.
4. **Fit:**
   a) Participants indicated that both the boxer short and the thermal underwear should provide a snug (not tight) next to skin fit.
   b) Underwear should not ride or bunch up with wear.
   c) The length of the thermal top should be about four inches longer than the in-service top to ensure an adequate overlap with the thermal pant.
5. **Durability:**
   a) The underwear fabric and elasticized waists and cuffs should not change their size or shape following repeated laundering or wear.
6. **Field Cleaning and Repair:**
   a) Participants indicated that, generally, underwear is not cleaned in the field. They did acknowledge that they might wash underwear in a mild detergent when on a protracted field deployment, but likely not. Undergarments must be launderable, however, using the laundry facilities provided in garrison and in the field.
   b) Repairs to large rips and tears would be performed using hand sewing in the field. Small tears would be ignored. Any new undergarment fabric must be repairable with the issue sewing kit.

7. **Static Electricity:**
    a) Participants did not perceive a static electricity hazard in their job.
8. **Flammability:**
    a) Participants did not consider flame resistance a high priority and would be satisfied if the underwear had the same flammability characteristics as their combat clothing.
9. **Material Resistance:**
    a) Exposure to POL, DEET, naphtha , sweat or salt water should not result in a loss of material durability, colour, shape, or water resistance.

Additional Design Features

The following design features were most preferred, by participants, for new undergarments.

- Boxer Style: Almost all participants (90%) preferred a biker short style with a length to mid-thigh.
- Thermal Top Style: Most participants (90%) preferred a Norwegian shirt style of thermal top, with a zippered, foldable, high collar. The Norwegian style was seen to offer several benefits. The thermal protection afforded by the collar could be adjusted from zipped open and laid flat (no protection), zipped up and rolled down to a turtleneck (medium protection), or zipped up and extended up the length of the neck (high protection). The zipper should extend down to about mid-chest to enable soldiers to vent excess heat and sweat vapour. A cloth flap should be included behind the zipper to prevent zipper contact with the skin, which might result in skin irritation or cold conductance to the skin.
- Waist Bands and Cuffs: Wide elasticized waist bands were preferred (2-3 cm), to minimize compression forces at the skin. Wrist and ankle cuffs should be long and thin to reduce the likelihood of any compatibility clash with other clothing items (e.g. jacket sleeves and gloves at the wrist and trousers, socks, and boots at the ankle) and should minimize bulk in these critical mobility areas.
- Fly Opening: Most participants (85%) did not require a fly opening on their boxer shorts. Participants did request a slit fly in their thermal pants to aid in accessibility through the multiple clothing layers typically associated with cold weather.
- Fabric: Participants preferred a light, breathable natural fiber fabric (e.g. cotton) for the boxer pant. Based on their experience with civilian thermal underwear, participants preferred a stretchy, light insulating, moisture wicking synthetic fabric (e.g. polypropylene). Participants acknowledged that some synthetic fabrics, such as polypropylene, posed a burn hazard when exposed to flame. Most suggested, however, that the thermal protection afforded by synthetic fabrics, to address a much higher risk of cold exposure in winter operations, was a reasonable trade-off.

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the past, user feedback on the suitability of in-service clothing and equipment has been unsystematic and ad hoc, relying on both formal commetns from the soldier community and the UCR process Based on a clear need to improve on the current UCR process, CIEM has undertaken to develop a standardized, questionnaire survey system for collecting and analyzing user feedback on othing and equipment issues - ACCESS

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